

OWNER'S GUIDE

OUTDOOR POWER EQUIPMENT
for all seasons

Spring



Summer



Fall



Winter



VARIABLE SPEED REAR ENGINE RIDING MOWERS

Model Numbers

136-501-000

thru

136-508-000

136-511-000

thru

136-518-000

26" DECK S.D. 196-795

30" DECK S.D. 196-796

30" DECK R.D. 196-797

TURNING RADIUS

48" INSIDE APPROX. 8 1/2' OUTSIDE

Important:

**Read Safety Rules and
Instructions Carefully**

Thank you for purchasing
an American-built product.

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Instructions given with this symbol are for personal safety. Be sure to follow them.

LIMITED WARRANTY

For one year from the date of original retail purchase, MTD PRODUCTS INC will either repair or replace, at its option, free of charge, F.O.B. factory or authorized service firm, any part or parts found to be defective in material or workmanship. Transportation charges for the movement of any power equipment unit or attachment are the responsibility of the purchaser. Transportation charges for any parts submitted for replacement under this warranty must be paid by the purchaser unless such return is requested by MTD PRODUCTS INC.

This warranty will not apply to any part which has become inoperative due to misuse, excessive use, accident, neglect, improper maintenance, alterations, or unless the unit has been operated and maintained in accordance with the instructions furnished. This warranty does not apply to the engine, motor, battery, battery charger or component parts thereof. Please refer to the applicable manufacturer's warranty on these items.

This warranty will not apply where the unit has been used commercially.

Warranty service is available through your local authorized service dealer or distributor. If you do not know the dealer or distributor in your area, please write to the Customer Service Department of MTD.

The return of a complete unit will not be accepted by the factory unless prior written permission has been extended by MTD.

This warranty gives you specific legal rights. You may also have other rights which vary from state to state.



WARNING

This unit is equipped with an internal combustion engine and should not be used on or near any unimproved forest-covered, brush-covered or grass-covered land unless the engine's exhaust system is equipped with a spark arrester meeting applicable local or state laws (if any). If a spark arrester is used, it should be maintained in effective working order by the operator.

In the State of California the above is required by law (Section 4442 of the California Public Resources Code). Other states may have similar laws. Federal laws apply on federal lands. A spark arrester muffler is available at your nearest engine authorized service center.



WARNING

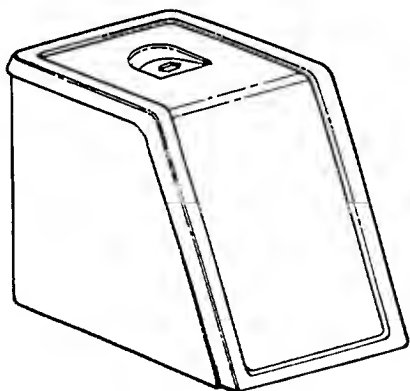
To reduce the potential for any injury, comply with the following safety instructions. Failure to comply with the instructions may result in personal injury.

SAFE OPERATION PRACTICES FOR RIDING VEHICLES

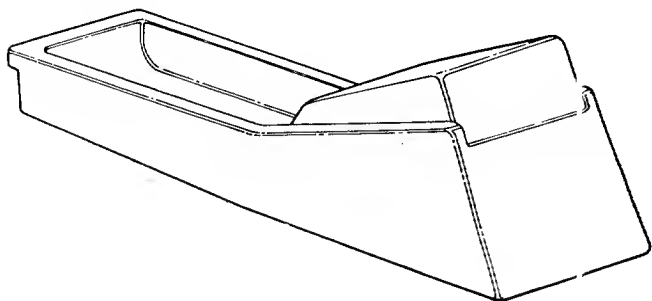
1. Read this owner's manual carefully in its entirety before attempting to assemble or operate this unit. Keep this manual in a safe place for future and regular reference and for ordering replacement parts.
2. This unit is a precision piece of power equipment, not a plaything. Therefore exercise extreme caution at all times.
3. Know the controls and how to stop quickly—**READ THIS OWNER'S MANUAL.**
4. Do not allow children to operate vehicle. Do not allow adults to operate it without proper instruction. Only persons well acquainted with these rules of safe operation should be allowed to use your mower.
5. No one should operate this unit while intoxicated or while taking medication that impairs the senses or reactions.
6. Wear sturdy, rough-soled work shoes and close-fitting slacks and shirts to avoid entanglement in the moving parts. Never operate a unit in bare feet, sandals, or sneakers.
7. To prevent injury, do not carry passengers or give rides. Keep children, pets and bystanders out of the area while mowing. Only the operator should ride on the unit and only ride in the seat.
8. Check overhead clearance carefully before driving under power lines, guy wires, bridges or low hanging tree branches, before entering or leaving buildings, or in any other situation where the operator may be struck or pulled from the unit, which could result in serious injury.
9. To maintain control of the unit and reduce the possibility of upset or collision, operate the tractor smoothly. Avoid erratic operation and excessive speed.
10. Keep the area of operation clear of all persons, particularly small children and pets. Stop engine when they are in the vicinity of your mower. Although the area of operation should be completely cleared of foreign objects, a small object may have been overlooked and could be accidentally thrown by the mower in any direction and cause injury.
11. Clear work area of objects which might be picked up and thrown by the mower in any direction and cause injury.
12. Stop the blade(s) when crossing gravel drives, walks or roads.
13. Disengage all attachment clutches and shift into neutral before attempting to start engine.
14. Disengage power to attachment(s) and stop engine before leaving operating position.
15. Do not put hands or feet near or under rotating parts. Keep clear of the discharge opening at all times as the rotating blade(s) can cause injury.
16. Disengage power to attachment(s) and stop engine before making any repairs or adjustments. Disconnect the spark plug wire and keep the wire away from the plug to prevent accidental starting.
17. Before attempting to unclog the mower or discharge chute, stop the engine. The mower blade(s) may continue to rotate for a few seconds after the engine is shut off. Therefore, be sure the blade(s) have stopped completely. Disconnect the spark plug wire and keep the wire away from the plug to prevent accidental starting.
18. Disengage power to attachment(s) when transporting or not in use.
19. Take all possible precautions when leaving vehicle unattended such as disengaging power-take-off, lowering attachments, shifting into neutral, setting parking brake, stopping engine and removing key.
20. Do not stop or start suddenly when going uphill or downhill. Mow up and down face of steep slopes; never across the face. Use extreme caution if it is necessary to drive the tractor up an incline or back the tractor down an incline because the front of the tractor could lift and rapidly flip over backward which could cause serious injury.
21. Reduce speed on slopes and in sharp turns to prevent tipping or loss of control. Always keep the tractor in gear when going down steep hills to take advantage of engine braking action.
22. Stay alert for holes in terrain and other hidden hazards.
23. Use care when pulling loads or using heavy equipment.
 - A. Use only approved drawbar hitch points.
 - B. Limit loads to those you can safely control.
 - C. Do not turn sharply. Use care when backing.
 - D. Use counterweight(s) or wheel weights when suggested in owner's manual.
24. Watch out for traffic when crossing or near roadways.
25. When using any attachments, never direct discharge of material toward bystanders nor allow anyone near vehicle while in operation.
26. Handle gasoline with care. It is highly flammable.
 - A. Use approved gasoline container.
 - B. Never remove cap or add gasoline to a running or hot engine or fill fuel tank indoors. Wipe up spilled gasoline.
 - C. Open doors if engine is run in garage. Exhaust fumes are dangerous. Do not run engine indoors.

27. Keep the vehicle and attachments in good operating condition, and keep safety devices in place. Use guards as instructed in operator's manual.
28. Keep all nuts, bolts, and screws tight to be sure the equipment is in safe working condition.
29. Never store the machine with fuel in the fuel tank inside a building where ignition sources are present, such as hot water and space heaters, clothes dryers, and the like. Allow the engine to cool before storing in any enclosure.
30. To reduce fire hazard, keep engine free of grass, leaves or excessive grease.
31. The vehicle and attachments should be stopped and inspected for damage after striking a foreign object. The damage should be repaired before restarting and operating the equipment.
32. Do not change the engine governor settings or overspeed the engine.
33. When using the vehicle with mower, proceed as follows:

- (1) Mow only in daylight or in good artificial light.
 - (2) Never make a cutting height adjustment while engine is running if operator must dismount to do so.
 - (3) Shut the engine off and wait until the blade comes to a complete stop before removing the grass catcher.
 - (4) Check blade mounting bolts for proper tightness at frequent intervals.
34. Check grass catcher bags frequently for wear or deterioration. For safety protection, replace only with new bag meeting original equipment specifications.
 35. Look behind to make sure the area is clear before placing the transmission in reverse and continue looking behind while backing up. Disengage blades before shifting into reverse and backing up.
 36. This unit should not be driven up a ramp onto a trailer or truck under power, because the unit could tip over, causing serious personal injury. The unit must be pushed manually to load properly.



Style A



Style B

FIGURE 1.

ASSEMBLY INSTRUCTIONS

➔ NOTE

This unit is shipped WITHOUT GASOLINE or OIL. After assembly, see separate engine manual for proper fuel and engine oil recommendations.

This owner's manual covers various models of riding mowers. The units illustrated may vary slightly from your unit.

Examine the steering box cover on your unit, and determine if it is Style A or Style B as shown in ← figure 1. Follow only those instructions which pertain to your style riding mower.

➔ NOTE

Reference to right hand or left hand side of machine is from the driver's seat facing forward.

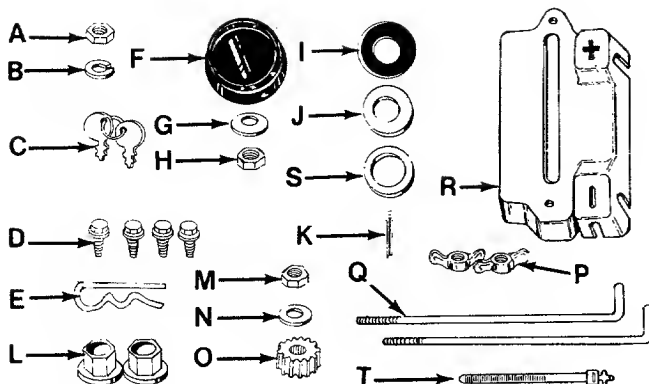


FIGURE 2A.—Hardware for Style A

Contents of Hardware Pack for Style A:

(See Figure 2A)

- A (1) Hex Nut 1/2-13 Thread
- B (1) Lock Washer 1/2" I.D.
- C (2) Ignition Keys (May be on Rider)
- D (4) Hex Self-Tapping Screws
- E (1) Hairpin Cotter (30" Side Discharge Deck Only)
- F (1) Steering Wheel Cap
- G (1) Belleville Washer 5/16" I.D.
- H (1) Hex Nut 5/16-18 Thread
- I (1) Steering Tube Spacer
- J (1) Flat Washer 5/8" I.D. x 1-5/8" O.D.
- K (1) Cotter Pin
- L (2) Hex Flange Bearings
- M (1) Hex Nut 5/16-24 Thread
- N (1) Flat Washer 5/16" I.D. x 5/8" O.D.
- O (1) Pinion Gear
- P (2) Wing Nuts*
- Q (2) Battery Hold Down Rods*
- R (1) Battery Cover*
- S (1) Flat Washer 5/8" I.D. x 1 1/4" O.D.
- T (1) Cable Tie

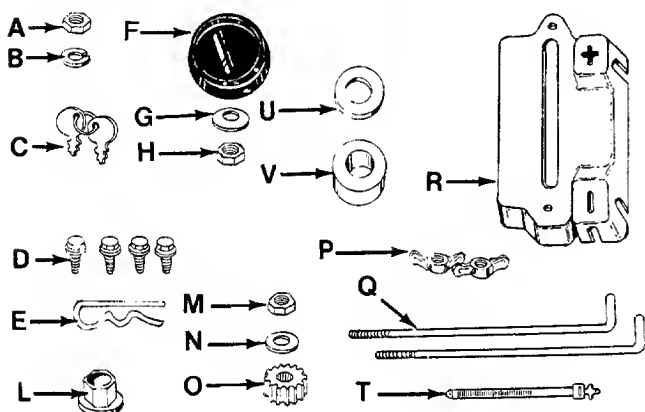


FIGURE 2B.—Hardware for Style B

Contents of Hardware Pack for Style B:

(See Figure 2B)

- A (1) Hex Nut 1/2-13 Thread
- B (1) Lock Washer 1/2" I.D.
- C (2) Ignition Keys (May be on Rider)
- D (4) Hex Self-Tapping Screws
- E (1) Hairpin Cotter (30" Side Discharge Deck Only)
- F (1) Steering Wheel Cap
- G (1) Belleville Washer 5/16" I.D.
- H (1) Hex Nut 5/16-18 Thread
- L (1) Hex Flange Bearing
- M (1) Hex Nut 5/16-24 Thread
- N (1) Flat Washer 5/16" I.D. x 5/8" O.D.
- O (1) Pinion Gear
- P (2) Wing Nuts*
- Q (2) Battery Hold-down Rods*
- R (1) Battery Cover*
- T (1) Cable Tie
- U (1) Flat Washer 5/8" I.D. x 1 1/2" O.D.
- V (1) Plastic Spacer

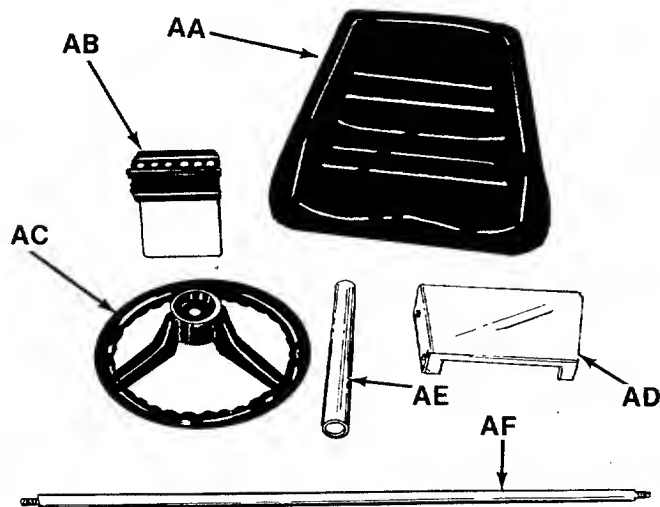


FIGURE 3.

Loose Parts in Carton: (See Figure 3)

- AA (1) Seat
- AB (1) 12 Volt Battery*
- AC (1) Steering Wheel
- AD (1) Steering Gear Cover
- AE (1) Steering Tube—Chrome (Style A)
- AF (1) Steering Shaft (Style A)
- AG (1) Steering Shaft Assembly (Style B)—Not Shown

* Electric start models only.

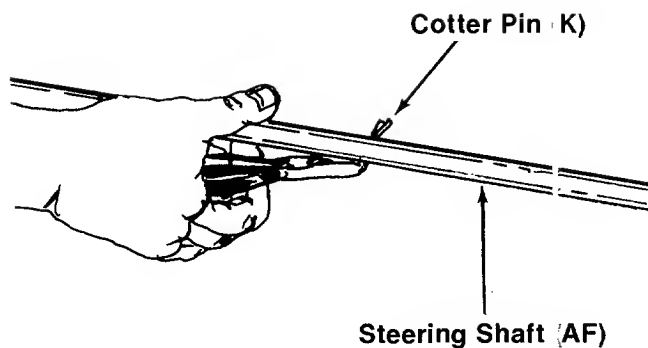


FIGURE 4.—Style A Only

INSTALLATION OF STEERING MECHANISM



Steps 1 through 6 are for Style A units only. For Style B units, proceed with step 6.

Style A only:

1. Insert the **cotter pin (K)** into the hole on **steering shaft (AF)**. Secure in place by bending the ends of the cotter pin in opposite directions. See figure 4.

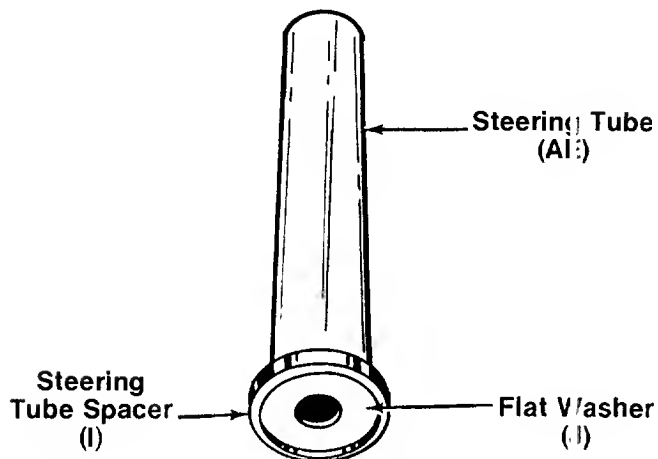


FIGURE 5.—Style A Only

2. Press the large **flat washer (J)** (1-5/8" diameter) into the open side of the black plastic **steering tube spacer (I)**. See figure 5.
3. Press the **steering tube spacer** into one end of the chrome-plated **steering tube (AE)**. See figure 5. Make certain spacer is seated securely into tube.

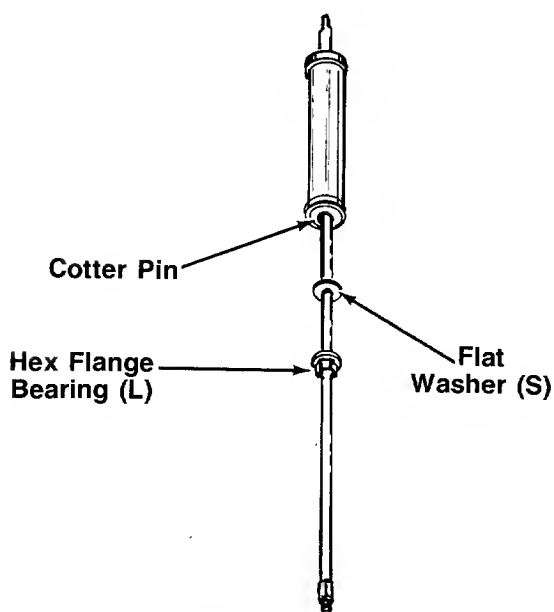


FIGURE 6.—Style A Only

4. With the **steering shaft** in the normal upright position (end with flattened portions up), slide the **steering tube spacer** and **steering tube** down over the **shaft**. See figure 6.
5. Slip **flat washer (S)** (1 1/4" diameter) on the **steering shaft** immediately below the cotter pin. Place one plastic **hex flange bearing (L)**, flat side up, below the washer. See figure 6.

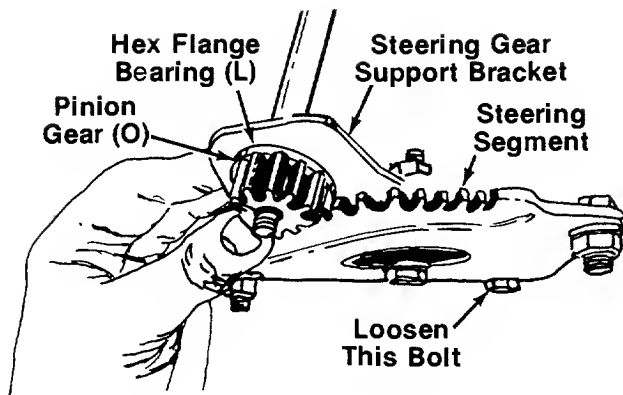


FIGURE 7.

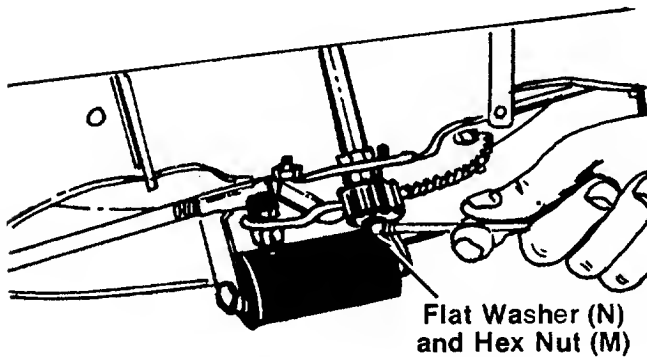


FIGURE 8.

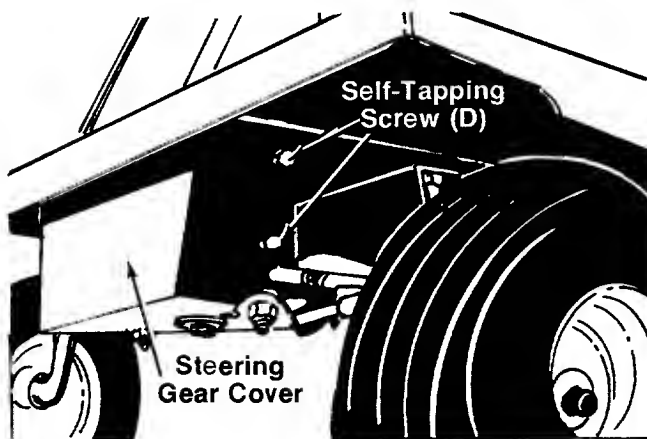


FIGURE 9.

6. **Style A**—Insert the **steering shaft** with assembled parts through the **steering housing cover**. The lower end of the shaft should extend through the hole in the front end of the **steering gear support bracket** (Ref. No. 12 on page 30). See figure 7.

Style B—Insert the **steering shaft** through the **steering housing cover**. Place **flat washer (U)** and **plastic spacer (V)** over end of **steering shaft** before inserting the shaft through the hole in the front end of the **steering gear support bracket** (Ref. No. 12 on page 30).

7. Loosen the **hex nut** located at the **rear of the steering gear segment** (Ref. No. 27 on page 30) so that the steering gear segment can be pushed about $\frac{1}{4}$ " toward the rear of the rider, to permit easier assembly of the **pinion gear**. Two $\frac{9}{16}$ " wrenches are required.
8. Place **hex flange bearing (L)**, flat side down, over the end of the **steering shaft**, and seat it into the **steering gear support bracket**. See figure 7.
9. Position **pinion gear (O)** over splined collar on **steering shaft**. Then place **flat washer (N)** ($\frac{5}{8}$ " diameter) on shaft and secure with **hex nut (M)** ($\frac{5}{16}$ " I.D.). Do not tighten at this time.
10. Push the **steering gear segment** (loosened in step 7) forward toward its original position, until it **engages solidly into the teeth of the pinion gear**. Retighten the nut at the rear of the steering gear segment. Two $\frac{9}{16}$ " wrenches are required.
11. Now tighten the **hex nut (M)** which secures the **pinion gear**. See figure 8.
12. Lubricate the teeth of the pinion gear and steering gear segment with an automotive chassis grease.

13. Install the **steering gear cover (AD)** as shown in figure 9, to cover the underside of the steering mechanism. Secure with two **self-tapping screws (D)** on each side of the cover. Do not completely tighten any of these screws until all four of them are positioned correctly.

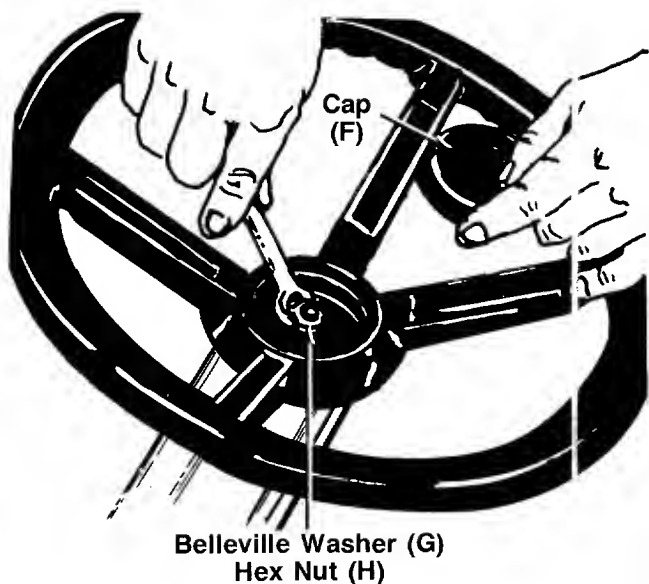


FIGURE 10.

14. Make certain the front wheels of the tractor are pointing straight.
15. Place **steering wheel AC** in position desired. Make certain the steering wheel is seated over the end of the steering tube.



On units which have flats on the steering wheel and shaft, line up the flats in the wheel with the flats on the shaft.

16. Secure with **belleville washer (G)** (cupped side against the steering wheel) and **hex nut (H)**. See figure 10.
17. Press the **steering wheel cap (F)** on the steering wheel by hand.

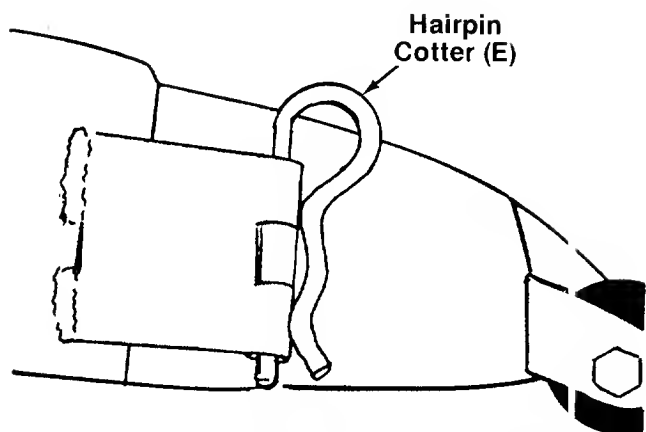


FIGURE 11.—30" Side Discharge Deck

CHUTE DEFLECTOR

30" Side Discharge Deck:

Secure the **chute deflector** to the deck by placing the **large hairpin cotter (E)** in the **chute deflector bracket**, located on the front of the deck. See figure 11.

36" Rear Discharge Deck:

Attach the **chute deflector** to the **deck** as instructed in the separate deck manual packed with your unit. **The riding mower cannot be operated unless the chute deflector is correctly installed.**

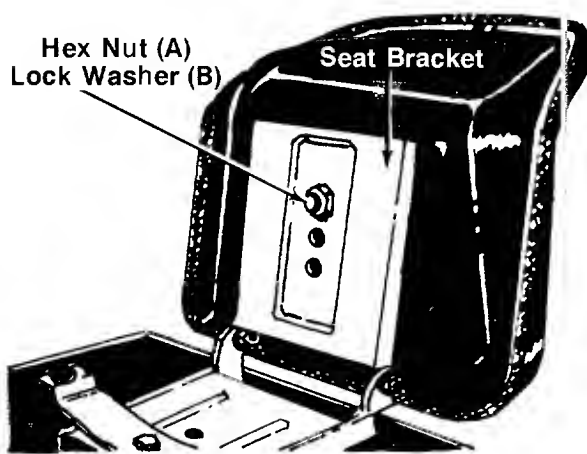


FIGURE 12.

SEAT

The seat may be adjusted to three different positions. Select the desired seat position and secure the **seat** to the **seat bracket** with **hex nut (A)** and **lock washer (B)**. See figure 12.

TIRE PRESSURE

For shipping purposes, the tires on your unit may be over-inflated. Tire pressure should be reduced before unit is put into operation. Recommended operating tire pressure should be 10 p.s.i.

Check sidewall of tire for manufacturer's maximum tire pressure. If this information does not appear on your tire, maximum tire pressure under any circumstances is 30 p.s.i. Equal tire pressure should be maintained on all tires.

BATTERY INFORMATION FOR ELECTRIC START MODELS ONLY



WARNING

- A. Battery acid must be handled with great care as contact with it can burn and blister the skin. It is also advisable to wear protective clothing (goggles, rubber gloves and apron) when working with it.*
- B. Should battery acid accidentally splatter into the eyes or onto the face, rinse the affected area immediately with clean cold water. If there is any further discomfort, seek prompt medical attention.
- C. If acid spills on clothing, first dilute it with clean water, then neutralize with a solution of ammonia/water or baking soda/water.

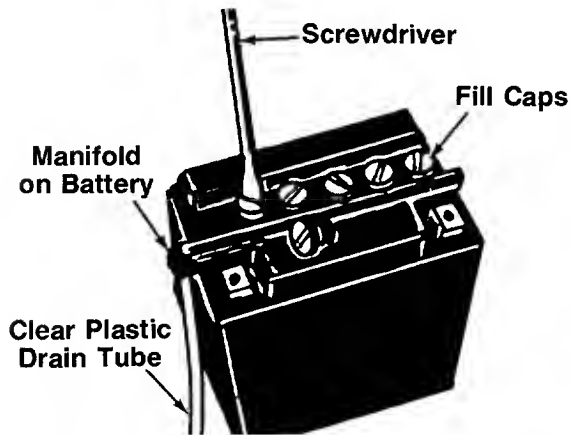


FIGURE 13.

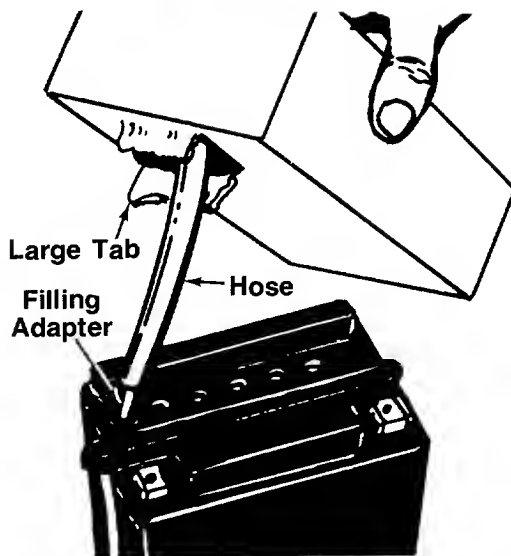


FIGURE 14.

- D. Since battery acid is corrosive, do not pour it into any sink or drain. Before discarding empty electrolyte containers, rinse them with a neutralizing solution.
- E. NEVER connect or disconnect charger clips to battery while charger is turned on as it can cause sparks.
- F. Keep all lighted materials (cigarettes, matches, lighters) away from the battery as the hydrogen gas generated during charging can be combustible.
- G. As a further precaution, only charge the battery in a well-ventilated area.

***Always shield eyes, protect skin and clothing when working near batteries.**

ACTIVATING AND INSTALLING THE BATTERY

1. Upon opening the battery pack, you should receive acid pack, battery, drain tube, filling adapter and hardware.



DANGER

BATTERIES CONTAIN SULFURIC ACID AND MAY CONTAIN EXPLOSIVE GASES (when electrolyte has been added).

2. Place the battery on table or workbench to be filled.
3. Place one end of clear plastic drain tube on manifold of battery. See figure 13.



NOTE

Some batteries may already have the drain tube installed, in which case it may be necessary to snip off the sealed end.

4. Remove the six fill caps from the top of the battery with a screwdriver. Care should be taken not to damage the fill caps. See figure 13.
5. Lay acid package down, with "push in" facing up. Using thumb, push in small perforated tab at dot on front of package. Tear down large tab to solid line, exposing hose. **Do not** use a sharp tool or object to open acid package.
6. Pull out hose from package and hold upright. Squeeze hose forcing all acid back into package. Cut off tip of hose and insert filling adapter. See figure 14.
7. Fill each cell to upper level marked on front of battery. Replace fill caps on battery. See figure 14.



Battery contains sulfuric acid. Refer to warning on page 9. Antidote: EXTERNAL—Flush with water. INTERNAL—Drink large quantities of water or milk. Follow with milk of magnesia, beaten egg or vegetable oil. Seek prompt medical attention. EYES: Flush with cool water for at least 15 minutes, then seek immediate medical attention.

Since batteries produce explosive gases, keep all lighted materials (cigarettes, lighters, matches, etc.) away. Be sure to charge battery only in well-ventilated areas.

**KEEP BATTERIES
OUT OF THE REACH OF CHILDREN!**

8. Allow battery to sit for 20 to 30 minutes. Add additional acid, if necessary, to bring it up to the proper level.
9. The battery can be charged after the 20 minutes sitting period. The battery can be slow charged (do not fast charge) at a maximum bench rate of 1.4 amperes until the specific gravity reading is 1.260-1.280. Charge for a minimum of 2 hours and a maximum of 8 hours.

NOTE

Charging rate after battery has been put into operation: The battery is to be charged for a period of 14-16 hours, **NO LONGER THAN 30 HOURS.**

During normal operation, it is only necessary to charge the battery:

1. When it is activated for the first time.
2. Before winter storage.
3. Before using the lawn tractor after winter storage.

NOTE

After battery has been in service, add only distilled water. **DO NOT ADD ACID.**

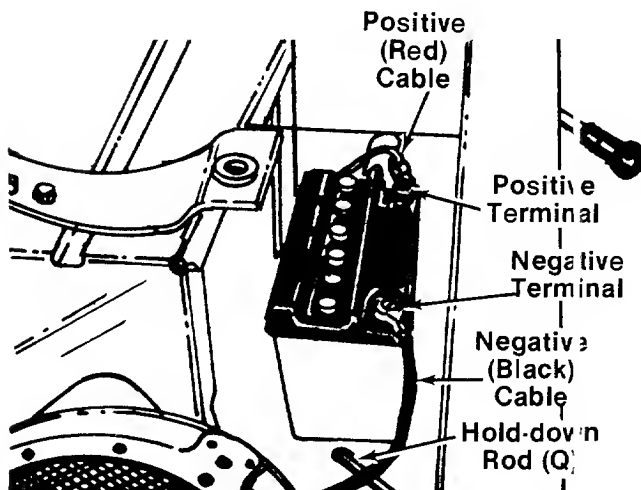


FIGURE 15.

**INSTALLING THE BATTERY
(Electric Start Models Only)**

1. Hook the battery hold-down rods into the holes in the frame. See figures 15 and 16.
2. Place the battery in the rider with the positive terminal to the front. The negative terminal goes to the rear of the unit. See figure 15.
3. Place the positive (heavy red) cable and small red wire with in-line fuse on the positive terminal. Secure with bolt, nut and lock washer provided with battery.
4. Place the negative (heavy black) cable on the negative terminal. Secure with bolt, nut and lock washer provided with battery. See figure 15.

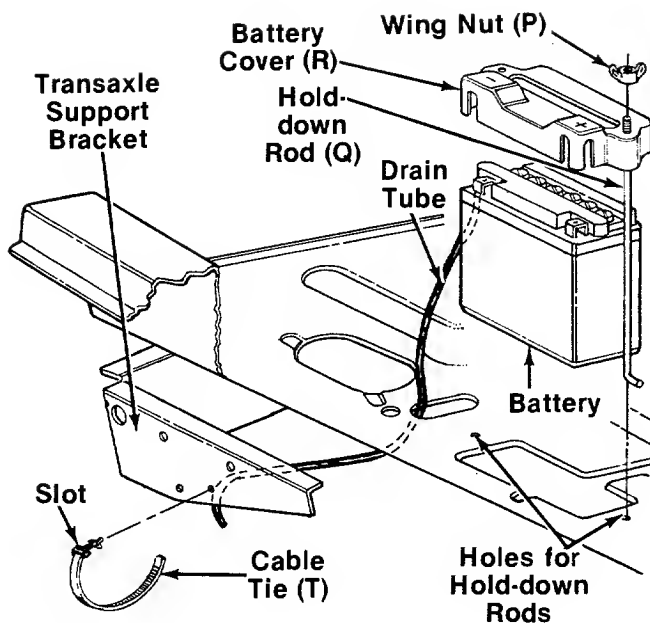


FIGURE 16.

5. Secure the battery in place with battery cover (R) and hold-down rods (Q). Secure with two wing nuts (P). See figure 16.
6. Route the clear plastic drain tube down through the hole in the frame shown in figure 16.
7. Push the locking end of cable tie (T) through the hole in transaxle support bracket. See figure 16. Place the end of cable tie through the slot so a loop is formed around the drain tube to secure it. Tighten cable tie and cut off excess end.

CONTROLS

This manual should be read in its entirety before operating the riding mower. While reading the manual, compare the illustrations with your mower to familiarize yourself with the locations of various controls, lubrication points and adjustment features.

Study the operating instructions and safety precautions thoroughly to insure proper functioning of your mower and to prevent injury to yourself and others. Be sure to save this manual for future reference.

THROTTLE CONTROL

The throttle control is used to regulate the engine speed. On 5 H.P. models, it is also used to choke the engine. The engine should be operated from 3/4 to full throttle when operating the cutting deck. See figure 17.

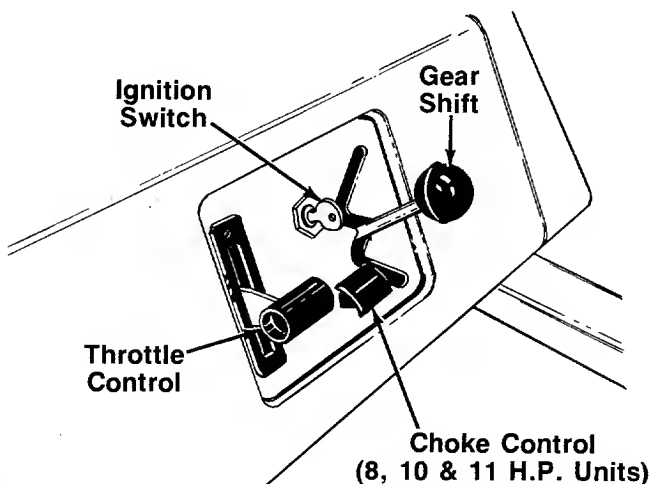


FIGURE 17.

CHOKE CONTROL (8, 10 and 11 H.P. Models)

The choke control is located on the console and is operated manually. Details for the choke operation are covered in the separate engine manual packed with your unit. See figure 17.

IGNITION KEY

Recoil Model—The key must be turned to the ON position before pulling the recoil handle to start the engine. Turn the key to the left to the OFF position to stop the engine. Remove the key when the unit is not in use.

Electric Start Model—The key must be turned to the START position to start the engine. After the engine is running, let the key return to the ON position. Turn the key to the OFF position to stop the engine. Remove the key when the rider is not in use. See figure 17.

SHIFT LEVER

The shift lever is located on the left hand side of the console and has three positions, FORWARD, NEUTRAL and REVERSE. See figure 17. The clutch-brake pedal must be depressed and the riding mower must not be moving when shifting gears. Do not force the shift lever. Release the clutch-brake pedal slightly to line up the shifting collar in the transmission. Then try to shift gears.

SPEED CONTROL LEVER

The speed control lever allows you to regulate the ground speed of the riding mower to one of six settings. See figure 18. To set, depress clutch pedal. Push speed control lever outward and move backward to slow rider, move forward to increase speed. When desired speed has been obtained, place lever in that position. Whenever clutch is engaged, rider will automatically go to the pre-set speed.

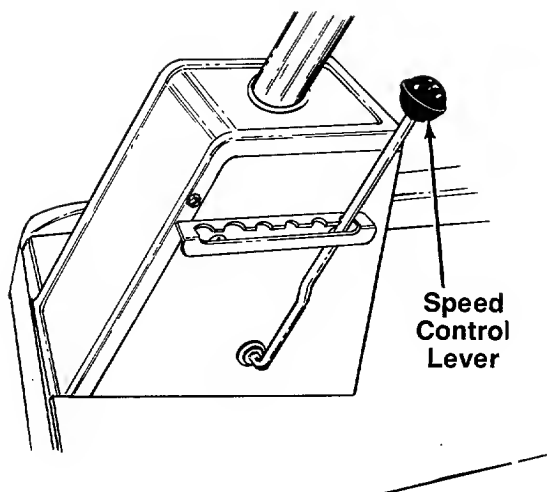


FIGURE 18.—Style A Shown

GASOLINE GAUGE

The gasoline gauge is located in the gasoline fill cap. The gauge indicates the amount of fuel in the tank.

CLUTCH-BRAKE PEDAL

The clutch-brake pedal is located on the right side of the rider. Depressing the clutch-brake pedal part way disengages the clutch. Pressing the pedal all the way down disengages the clutch and engages the disc brake. See figure 19.



NOTE

The clutch-brake pedal must be depressed to start the engine.

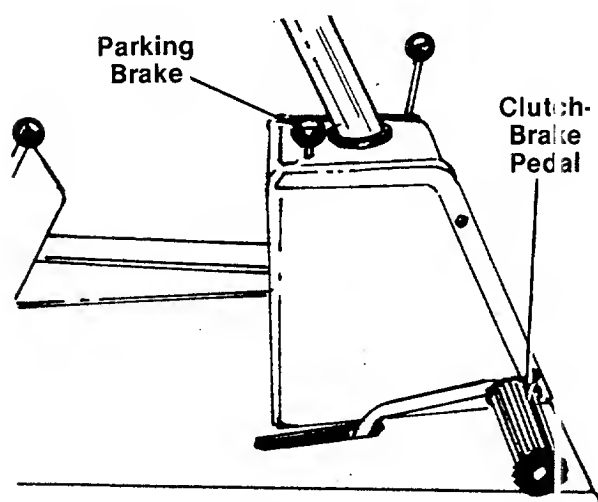


FIGURE 19.—Style A Shown

PARKING BRAKE

To set the parking brake, depress the clutch brake pedal and press the parking brake knob down. To release the parking brake, depress and release the clutch-brake pedal. See figure 19.

BLADE ENGAGEMENT LEVER

The blade engagement lever is located on the right hand side of the deck. Figure 20 shows the blade engagement lever in the disengaged position.

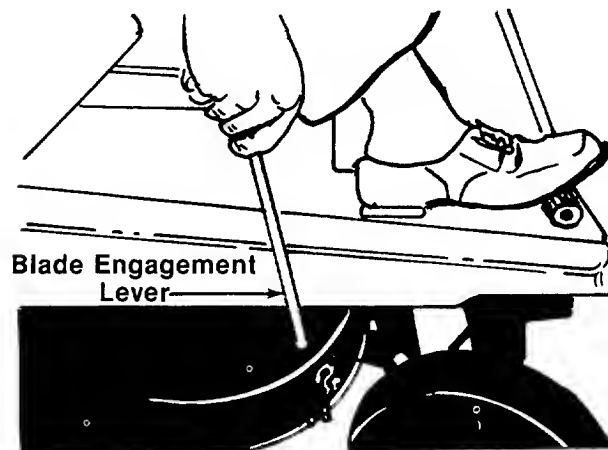


FIGURE 20.

To engage the blade, move the blade engagement lever toward the front of the unit. Move the lever toward the rear to disengage the blade.

DECK CUTTING HEIGHT LEVER

The deck cutting height lever is used to raise and lower the cutting deck, which sets the cutting height.

Move the lever outward, select desired cutting height and release lever. The lever may be set in any one of the six cutting height positions. See figure 21.



CAUTION

The blade does not shut off when the deck is raised. You must place the Blade Engagement Lever in the disengaged (OFF) position.

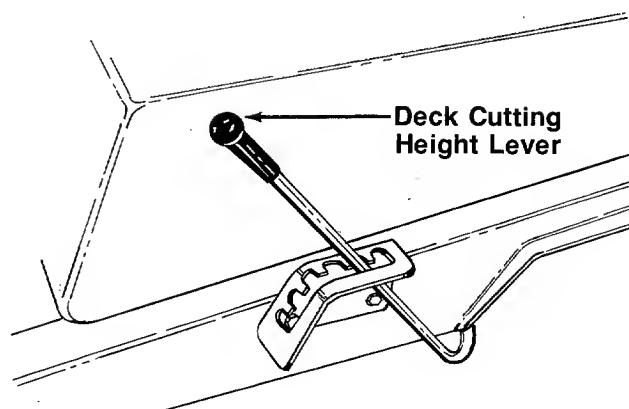


FIGURE 21.

SAFETY INTERLOCK SYSTEM

Interlock safety switches are located on the clutch-brake pedal, the blade engagement lever and shift lever.

Before the engine will start, the clutch pedal must be depressed all the way and the blade engagement lever must be in the disengaged position.

Before the unit can be shifted into reverse, the blade engagement lever must be in the disengaged position.

RECOIL STARTER HANDLE (Models 502 and 512 Only)

The recoil starter handle is located on the left rear side of rider. The recoil starter handle can be pulled while standing by the left rear side of unit. The ignition key must be on before the engine will start. After the engine starts, the recoil starter handle must be returned and locked into the rope handle bracket before the blade or clutch is engaged. The engine will stop if these instructions are not followed. See figures 22 and 23.

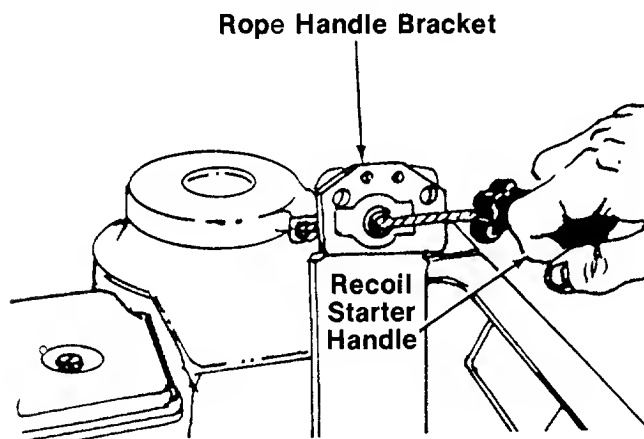


FIGURE 22.—Recoil Start Model

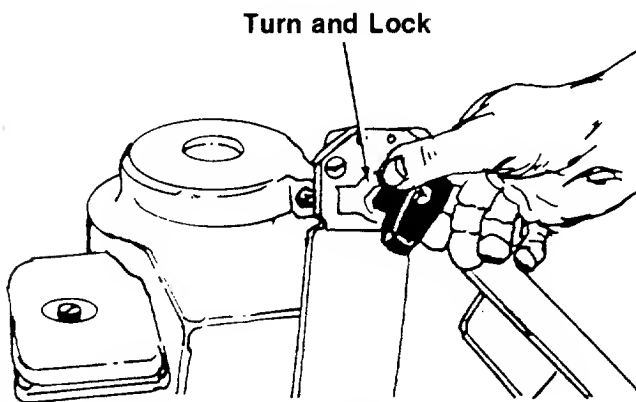


FIGURE 23.—Recoil Start Model

OPERATION



CAUTION

1. Keep all shields in place.
2. Before leaving operator's position:
 - a. Shift transmission to neutral
 - b. Set parking brake
 - c. Disengage attachment clutch
 - d. Shut off engine
 - e. Remove ignition key
3. Wait for all movement to stop before servicing machine.
4. Keep people and pets a safe distance away from machine.
5. Look to the rear before backing up.

CAUTION

**DO NOT OPERATE
MOWER UNLESS
GUARD OR ENTIRE
GRASS CATCHER IS
IN ITS PROPER PLACE.**



NOTE

This unit is equipped with a safety interlock system for your protection. The purpose of the safety interlock system is to prevent the engine from cranking or starting unless the clutch-brake pedal is depressed and the blade engagement lever is in the disengaged position. In addition, the blade engagement lever must be in the disengaged position when the unit is put into reverse or the engine will shut off.



WARNING

Do not operate the rider if the interlock system is malfunctioning because it is a safety device, designed for protection.

STARTING THE ENGINE



CAUTION

Get on and off the unit from the left hand side to avoid possible contact with the blade engagement lever (located on the right hand side).

1. Be sure the crankcase is filled with oil as recommended in the engine manual. Fill fuel tank with **regular** gasoline.
2. Attach the wire to the spark plug.
3. Depress the clutch-brake pedal and lock it down.
4. Move the blade engagement lever back to the disengaged position.
5. a. **5 H.P. units only:** Set the throttle control lever in the **CHOKE** position.
b. **All other units:** Set throttle control in the **FAST** position. Pull out the choke control.



NOTE

A warm engine may not require choking.

6. a. **Recoil Start Units:** Turn the ignition key to the **ON** position. Twist the recoil starter handle until it is free and pull it with a quick steady motion. After the engine starts, return the recoil starter handle and twist it until it locks. See figure 22.
b. **Electric Start Units:** Turn the ignition key to the **START** position. As soon as the engine starts, let the key return to the **ON** position. See figure 17.
7. a. **5 H.P. units:** Slowly return the throttle to the running position as the engine warms up.
b. **All other units:** Push choke knob in gradually. Move throttle control to desired engine speed.
8. To stop, turn the ignition key to the **OFF** position. Remove the key when the rider is not in use.

PUTTING THE RIDING MOWER IN MOTION



NOTE

Parking brake **must** be disengaged before unit is put into motion.

1. Advance the throttle control from 3/4 to full throttle to prevent strain on the engine and to operate the cutting blades.
2. Place the shift lever in either the **FORWARD** or **REVERSE** position.



CAUTION

Look to the rear before backing up.

3. Slowly release the clutch-brake pedal.
4. To stop, depress the clutch-brake pedal.
5. The blades can be engaged either while moving or while standing still. Move the blade engagement lever forward slowly until the blades are turning.



WARNING

When the blades are engaged, keep feet and hands away from the discharge opening, the blades or any part of the deck.

STOPPING

Engine—Turn the ignition key to the left to the **OFF** position.

Rider—Depress the clutch-brake pedal.

Blades—Pull the blade engagement lever all the way back.



CAUTION

If the unit is not to be used for a long period, place the shift lever in **NEUTRAL**, stop the engine, set the parking brake and remove the key. **DO NOT** leave the machine on an incline.



NOTE

A brief break-in period is essential to ensure maximum engine and mower life. The break-in consists of running the engine at half speed for a period of time required to use one tank of gasoline. It is also recommended to change crankcase oil after the first 5 hours of operation.

Be sure that the lawn is clear of stones, sticks, wire, or other objects which could damage lawn mower or engine. For best results and to insure more even grass distribution, do not mow when lawn is excessively wet.



IMPORTANT

If you strike a foreign object, stop the engine. Remove wire from spark plug, thoroughly inspect the mower for any damage, and repair the damage before restarting and operating the mower.

If unit stalls with speed control in high speed, or if unit will not operate with speed control lever in a low speed position, proceed as follows.

1. Place shift lever in Neutral.
2. Restart engine.
3. Place speed control lever in high speed position.
4. Release clutch-brake pedal fully.
5. Depress clutch-brake pedal.
6. Place speed control lever in desired position.
7. Place shift lever in either Forward or Reverse, and follow normal operating procedures.

GRASS CATCHERS are available as optional equipment for the riding mowers shown in this manual.

Model 015 for 26" Side Discharge Deck

Model 055 for 30" Side Discharge Deck

Model 038 for 30" Rear Discharge Deck

Model 058 for 36" Rear Discharge Deck



WARNING

The mower should not be operated without the entire grass catcher or chute deflector in place.



NOTE

Under normal usage bag material is subject to wear, and should be checked periodically. Be sure any replacement bag complies with the mower manufacturer's recommendations.

For replacement bags, use only factory authorized replacement bag.

ADJUSTMENTS



WARNING

Do not at any time make any adjustment to lawn mower without first stopping engine and disconnecting spark plug wire.

THROTTLE CONTROL

If adjustment is needed, refer to the separate engine manual packed with your unit.

SPEED CONTROL LEVER ADJUSTMENT

If the full range of speeds cannot be obtained on your unit, adjust the speed control lever as follows.

1. Start the engine.
2. Place the shift lever in Neutral position.
3. Place the speed control lever in high speed position.
4. Release the clutch-brake pedal completely, then slowly depress the pedal all the way (to park position). Hold the pedal in this position.
5. Turn the engine off.
6. After engine stops completely, release the clutch-brake pedal.
7. Disconnect the speed control rod by removing the hairpin cotter and flat washer. See figure 24.
8. Place the speed control lever in 2nd speed position.
9. Adjust the rod by threading it in or out of the ferrule until it is all the way to the front of the slot as shown in figure 24.
10. Secure the speed control rod using the flat washer and hairpin cotter.

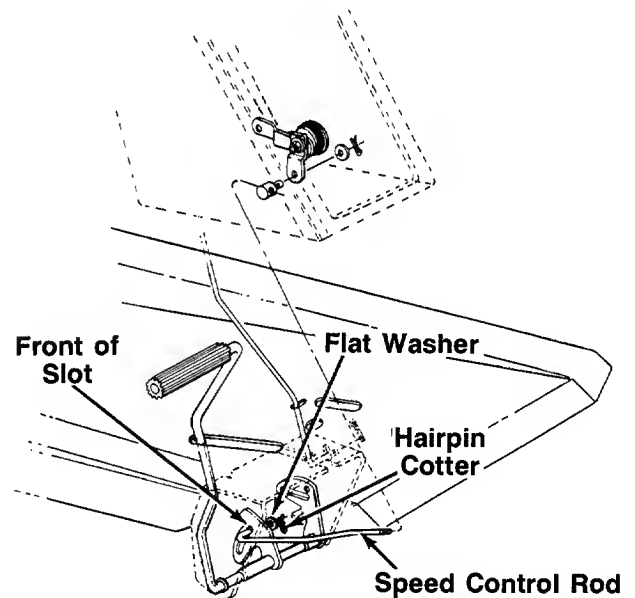


FIGURE 24.

NEUTRAL ADJUSTMENT (See Figure 25)

1. Place the transmission in neutral. (The unit will move freely when pushed forward and backward with the parking brake released).
2. Loosen the bolt which secures the shift lever assembly to the shift lever adjusting link.
3. Place the shift lever in the neutral slot.
4. Tighten the hex bolt to 13 foot pounds.

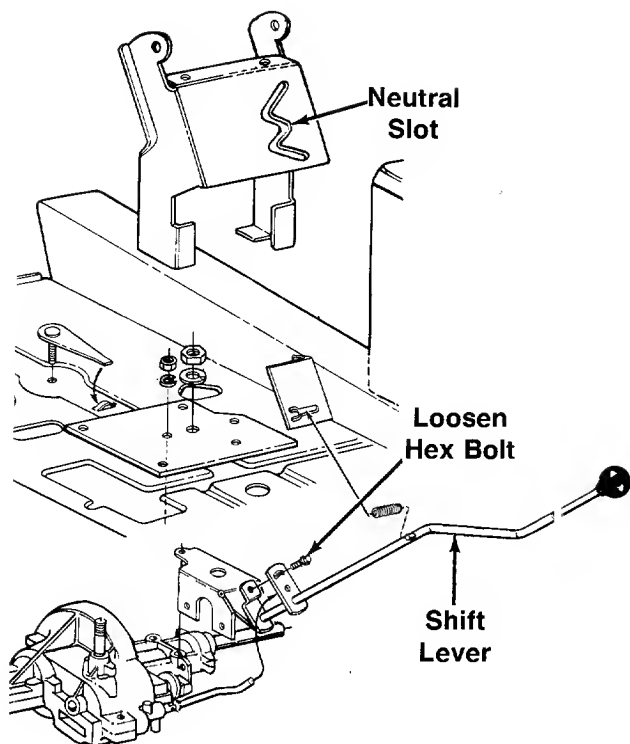


FIGURE 25.

BRAKE ADJUSTMENT (See Figure 26)

The brake is located by the left rear wheel inside the frame. During normal operation of this machine, the brake is subject to wear and will require periodic examination and adjustment.

To adjust the brake, remove the cotter pin. Adjust the castle nut so the brake starts to engage when the brake lever is $\frac{1}{4}$ " to $\frac{5}{16}$ " away from the axle housing.



Figure 26 is shown with the unit tipped up on rear wheels for clarity only.

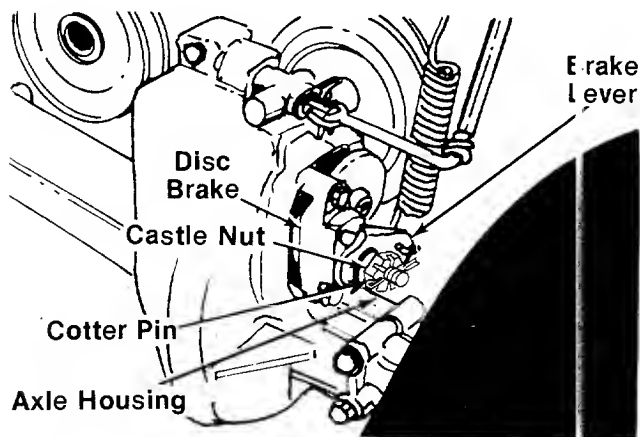


FIGURE 26.

WHEEL ALIGNMENT

The caster (forward slant of the king pin) and the camber (tilt of the wheels out at the top) require no adjustment. Automotive steering principles have been used to determine the caster and camber on the mower. The front wheels should toe-in $\frac{1}{8}$ inch. See figure 27. To adjust, follow these steps:

1. Remove the cotter pin and flat washer which hold the tie rod to the axle bracket. See figure 27.
2. Adjust the tie rod in or out until the wheels toe-in approximately $\frac{1}{8}$ ".
3. Replace the tie rod into the wheel bracket, and replace the cotter pin and flat washer.

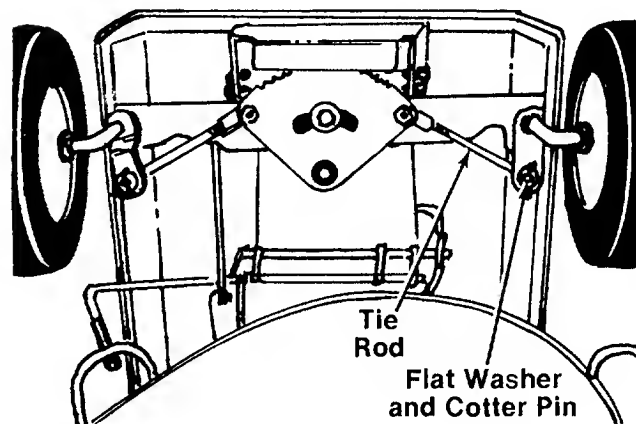


FIGURE 27.

DECK ADJUSTMENT ROD

If an uneven cut is obtained, the deck may be adjusted. A deck adjustment rod is located on the right side of the unit. See figure 28.

To adjust the deck, loosen the two hex nuts at the left rear deck link assembly. Thread the hex nuts up or down the deck adjustment rod as necessary. Retighten the hex nuts.

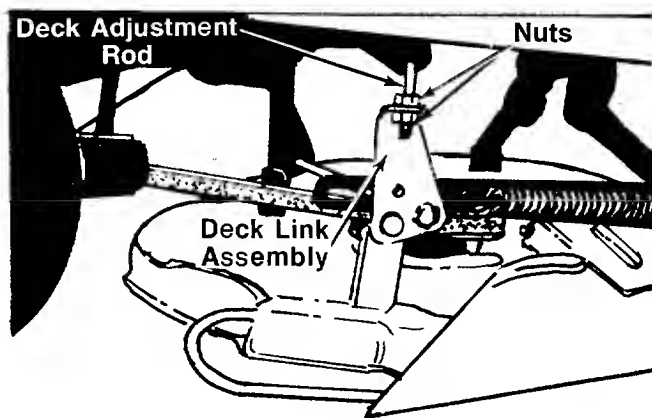


FIGURE 28.

CARBURETOR ADJUSTMENT



WARNING

If any adjustments are made to the engine while the engine is running (e.g. carburetor), disengage all clutches and blades. Keep clear of all moving parts. Be careful of heated surfaces and muffler.

Minor carburetor adjustment may be required to compensate for differences in fuel, temperature, altitude and load.

To adjust the carburetor, refer to the separate engine manual packed with your unit.

LUBRICATION



WARNING

Always stop engine and disconnect spark plug wire before cleaning, lubricating or doing any kind of work on riding mower.

1. **Engine.** Maintain the engine oil according to the engine manual.
2. **Front Wheels.** The front wheels are provided with grease fittings. Lubricate at least once a season with automotive multi-purpose grease.
3. **Linkage.** Oil all deck linkage and height adjustment linkage.
4. **Transaxle.** It is lubricated at the factory and does not require checking. Lubricate with 10 oz. of grease (Part No. 737-0148) if disassembled.

MAINTENANCE



WARNING

Disconnect spark plug wire and ground it against the engine before performing any repairs or maintenance.

CUTTING BLADE

A. Removal for Sharpening or Replacement



WARNING

Be sure to disconnect and ground the spark plug wire before working on the cutting blade to prevent accidental engine starting. Protect hands by using heavy gloves or a rag to grasp the cutting blade.

1. Remove the large bolt and lock washer which holds the blade and adapter to the blade spindle. See figure 29.
2. Remove the blade and adapter from the spindle.
3. If the blade or blade adapter needs replacing, remove the two small bolts, lock washers and nuts which hold the blade to the adapter. See figure 29.

B. Sharpening

Remove the cutting blade by following the directions of the preceding section.

When sharpening the blade, follow the original angle of grind as a guide. It is **extremely important** that each cutting edge receives an equal amount of grinding to prevent an unbalanced blade. An unbalanced blade will cause excessive vibration when rotating at high speeds, may cause damage to the mower and could break, causing personal injury.

The blade can be tested for balance by balancing it on a round shaft screwdriver. Remove metal from the heavy side until it balances evenly.



NOTE

It is recommended that the blade always be removed from the adapter for the best test of balance.

C. Reassembly

Before reassembling the blade and the blade adapter to the unit, lubricate the spindle and the inner surface of the blade adapter with light oil. Lubricating the bolt holes, bolts and inner surface of the nuts with light oil is also recommended. A 4 oz. plastic bottle of light oil lubricant is available. Order part number 737-0170. Engine oil may also be used.

When replacing the blade, be sure to install the blade with the side of the blade marked "Bottom" (or with part number) facing the ground when the mower is in the operating position.

Blade Mounting Torque

3/8" Dia. Bolt 375 in. lb. min., 450 in. lb. max.
5/16" Dia. Bolt 150 in. lb. min., 250 in. lb. max.



To insure safe operation, ALL nuts and bolts must be checked periodically for correct tightness.

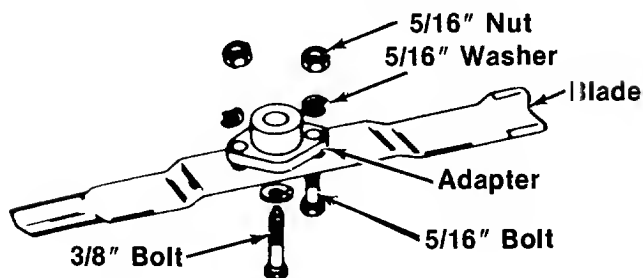


FIGURE 29.

CLEANING ENGINE AND BLADE HOUSING

Any fuel or oil spilled on the machine should be wiped off promptly. Grass, leaves, and other dirt must not be left to accumulate around the cooling fins of the engine or on any part of the machine.

Clean the underside of the blade housing after each mowing.

BELTS

Check that belts are free of oil or dirt. Wipe the belts periodically with a clean rag.

ENGINE OIL

Check oil level before starting engine and after every 5 hours of operation or each period of use. Refer to separate engine manual.

Change oil after first 5 hours of operation. Thereafter change every 25 hours. Change oil while engine is warm.

AIR CLEANER

Service air cleaner every 25 hours under normal conditions. Clean every few hours under extremely dusty conditions. Poor engine performance and flooding usually indicates that the air cleaner should be serviced. Refer to separate engine manual.

SPARK PLUG

The spark plug should be cleaned and the gap reset once a season. Spark plug replacement is recommended at the start of each mowing season; check engine manual for correct plug type and gap specification.

BATTERY MAINTENANCE

1. Check periodically (every two weeks or before and after charging) to be sure electrolyte level is above the lowest line on battery. Add only distilled water or good quality drinking water. NEVER add additional acid or other chemicals to battery after initial activation.

2. The battery should be checked with a hydrometer after every 25 hours of operation. If the specific gravity is less than 1.225, remove battery and recharge.
3. Coat the terminals and exposed wiring with a thin coat of grease or petroleum jelly for longer service and protection against electrolyte corrosion.
4. The battery should be kept clean. Any deposits of acid should be neutralized with soda and water. Be careful not to get this solution in the cells.

BATTERY STORAGE

1. Charge battery using normal methods. NEVER store discharged battery as it will not recover.
2. When storing battery for extended periods, disconnect battery cables. Removing battery from unit is recommended.
3. Store in cold, dry place.
4. Recharge battery whenever the specific gravity is less than 1.225, before returning to service, or every two months, whichever occurs first.

COMMON CAUSES FOR BATTERY FAILURE ARE:

1. Overcharging
2. Undercharging
3. Lack of water
4. Loose hold downs and/or corroded connections
5. Excessive loads
6. Battery electrolyte substitutes
7. Freezing of electrolyte



THESE FAILURES DO NOT CONSTITUTE WARRANTY.

INSTALLATION OF TIRE TO RIM



The following procedure must be followed when removing or installing a tire to the rim.

1. Be sure rim is clean and rust free.
2. Lubricate both the tire and rim generously.
3. Never inflate to over 30 p.s.i. to seat beads. Excessive inflation pressure when seating beads may cause tire/rim assembly to burst with force sufficient to cause serious injury.

DRIVE BELT REMOVAL AND REPLACEMENT



It is recommended that the entire instructions on belt removal and replacement be read before changing the belts.

1. Remove the battery from the unit (electric start models only).
2. To prevent gasoline from leaking from the engine, remove the fuel tank cap, place a piece of thin plastic over the neck of the fuel tank and screw on the cap.
3. Disconnect the spark plug wire and ground it against the engine.
4. Remove the deck as described in the separate deck manual.
5. Unhook the idler spring from the rider frame. See figure 30.
6. Remove the hex bolt, nut and lock washer at the torque rod bracket and transaxle. See figure 30.

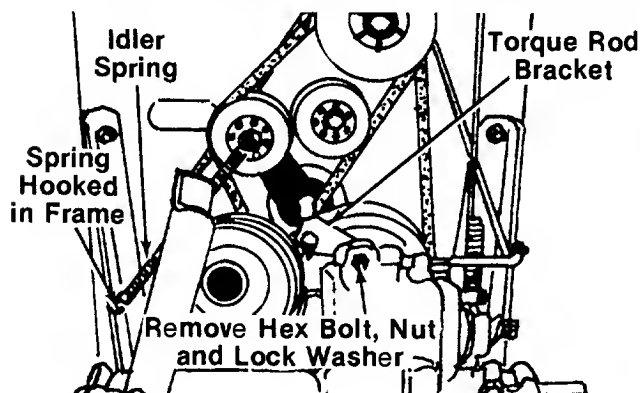


FIGURE 30.

7. Remove the hex bolt which holds the torque rod bracket to the torque rod, and remove bracket. See figure 31.

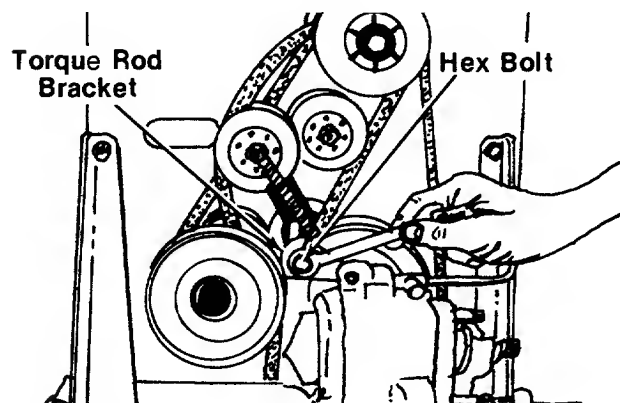


FIGURE 31.

8. Slip the "V"-belt off the variable speed pulley and transaxle pulley. See figure 32.

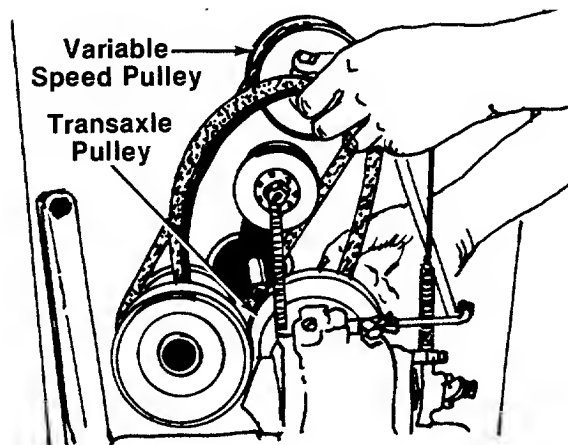


FIGURE 32.

9. Remove two hex bolts, nuts and lock washers from the engine pulley belt guard at rider frame to allow the engine pulley belt guard to drop down out of the way. See figure 33.

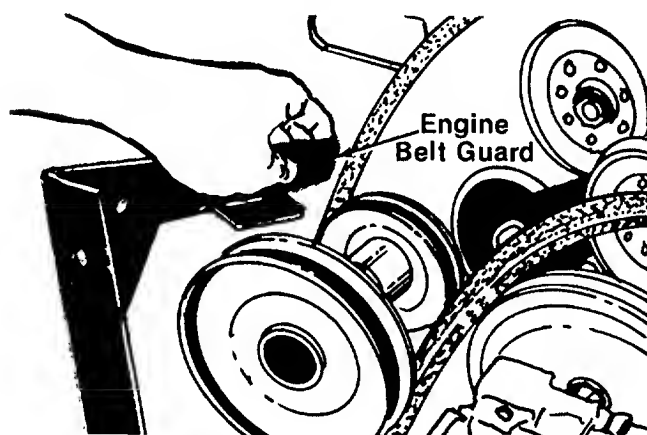


FIGURE 33.

10. Remove the idler pulley by removing the hex lock nut. See figure 34.

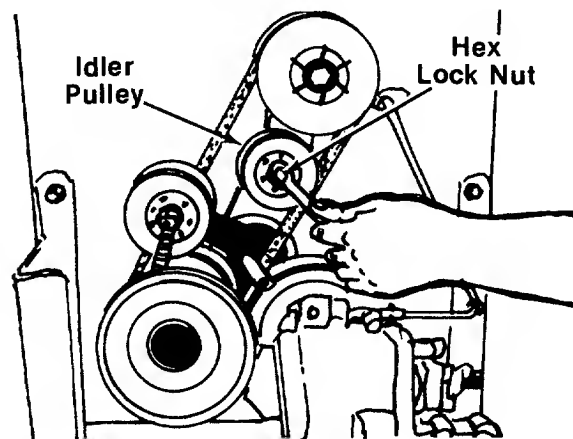


FIGURE 34.

11. Remove and replace the "V"-belt. See figure 35.

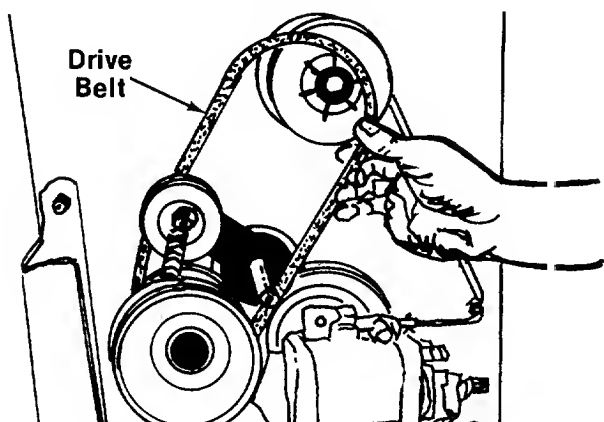


FIGURE 35.

12. Upon reassembly of idler pulley, be certain the hub side of idler goes against the idler bracket. See figure 36.

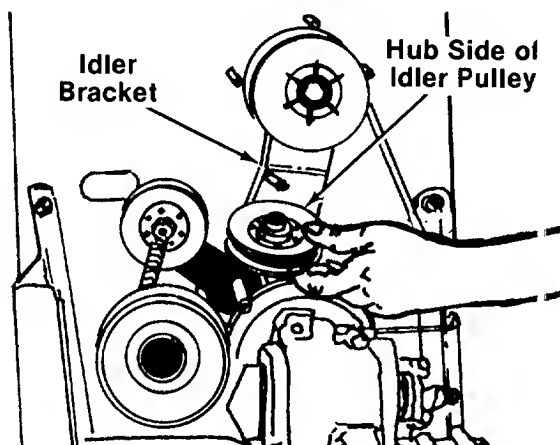


FIGURE 36.

13. When sliding the idler pulley on the idler bracket, be certain the belt is between the pulley and guide pin. See figure 37.

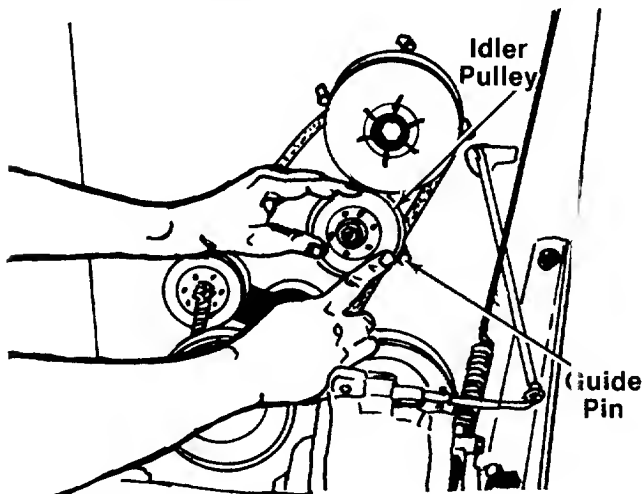


FIGURE 37.

14. Reverse the above steps (paying close attention to steps 12 and 13) when reassembling the new belts.



Be certain all belts are inside belt guards and keepers. Also, be sure to reassemble the safety wire (orange) at the deck chute.

OFF-SEASON STORAGE

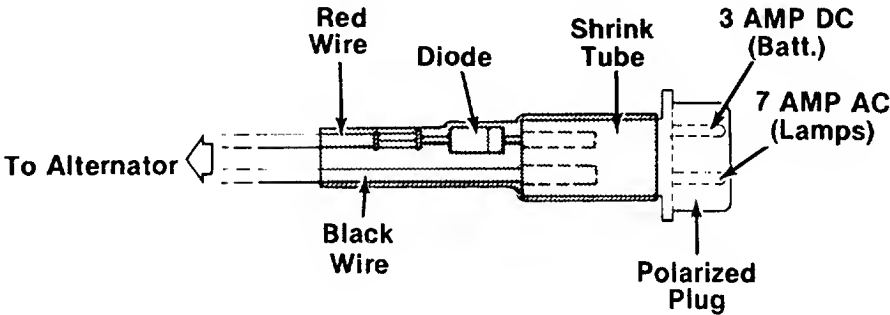
If the machine is to be inoperative for a period longer than 30 days, prepare for storage as follows.

1. Clean the engine and the entire unit thoroughly.
2. Lubricate all lubrication points. Wipe the entire machine with an oiled rag to protect the surfaces.
3. Refer to the engine manual for correct engine storage instructions. The engine must be completely drained of fuel to prevent gum deposits from forming on essential carburetor parts, fuel lines and fuel tanks.
4. Refer to battery storage instructions on page 18.
5. Store unit in a clean, dry area.



When storing any type of power equipment in an unventilated or metal storage shed, care should be taken to rustproof the equipment. Using a light oil or silicone, coat the equipment, especially any chains, springs, bearings and cables.

TROUBLE SHOOTING CHART FOR ELECTRIC START MODELS

TROUBLE	LOOK FOR	REMEDY
Engine will not crank	Battery installed incorrectly	The battery must be installed with the negative terminal, identified at the terminal post by (Neg, N or -), grounded. The positive terminal (Pos, P or +) attaches to the large cable from the solenoid. The small red wire from the fuse holder or circuit breaker is also attached to the positive terminal.
	Blown fuse or circuit breaker	Replace fuse with 7½ amp. fuse ¼ x 1¼" lg. Circuit breaker will reset itself when it cools off. Fuses or circuit breakers seldom open or fail without a reason. The problem must be corrected. Check for loose connections in the fuse holder. Replace fuse holder if necessary. A dead short may be in the cranking or charging circuit where the insulation may have rubbed through and exposed the bare wire. Replace the wire or repair with electrician's tape if the wire strands have not been damaged. Note: Look for a wire pinched between body panels, burned by the exhaust pipe or muffler or rubbed against a moving part.
	Battery is dead or weak	<p>Use a hydrometer to check the condition of the battery. The Specific Gravity (s.g.) should be 1.265 at 80°F. (1.215 s.g. minimum needed for cranking engine). The reason for the battery failing must be determined. (1) Defective battery. Battery will not accept or hold a full charge. (2) Short circuit. Check for grounded wire. (3) Engine alternator charging system not working. The charging system is an alternator located under the flywheel. It is unregulated and rated 3 amp. at 3600 r.p.m. A diode (rectifier) is located in the output lead just before the wire harness plug on the engine side.</p> <div style="text-align: center;">  </div> <p>The diode changes A.C. to D.C. to charge the battery. A bad diode can either fail to charge the battery or discharge the battery if the alternator is shorted as well as the diode. To test: (1) Disconnect charger lead from the battery (small red wire). (2) Connect 12 V small test lamp between the 3 amp. D.C. charge lead and the positive terminal of the battery. (3) With the engine off, the lamp should not light. If it does, the diode and possibly the alternator should be replaced. (4) Start the engine. The lamp should light. If it does not, the alternator (stator) or lead wire is bad and should be replaced.</p>
Engine cranks but will not start	Mechanical failure. (Wires and switches)	The interlock system includes two mechanical activated switches which are wired in series in the circuit used to energize the starter solenoid. While testing the interlock system, you will make the mower temporarily unsafe by permitting the engine to be started with the blade and clutch engaged. WARNING: While testing, disengage the clutch, shut off the blade control, set the parking brake and place the gear shift lever in neutral. Attach a wire (minimum 18 gauge) to the positive terminal of the battery and touch the other end to the small terminal on the solenoid. If the engine does not crank: (1) There is a loose connection or poor ground. (2) The solenoid may be bad. The solenoid can be checked by using a heavy wire (#8 gauge minimum) and jumping between the two large terminals. If the engine cranks, the solenoid is bad. (3) If the engine does not crank when you jump the solenoid, have the starter motor tested by an authorized engine dealer. If the engine does crank, the problem is with one of the safety switches, ignition switch or the wire between the fuse holder (or circuit breaker) and the small terminal on the solenoid. Note: Look for a poor connection at the switches or a defective switch. Replace if necessary.
	Throttle or choke not in starting position	Check owner's guide for correct position for throttle control and choke for starting.

TROUBLE SHOOTING CHART FOR ELECTRIC START MODELS

TROUBLE	LOOK FOR	REMEDY
Engine cranks but will not start	No spark to spark plug	Spark plug lead disconnected. Connect lead. Hold spark plug lead away from engine block about 1/8". Crank engine. There should be a spark. If not, have engine repaired at authorized engine service dealer. Faulty spark plug. To test, remove spark plug. Attach spark plug lead to spark plug. Ground the spark plug body against the engine block. Crank the engine. The spark plug should fire at the electrode. Replace if it does not.
	No fuel to the carburetor	Gasoline tank empty. Fill. Fuel line plugged. Remove and clean.
	Air filter dirty	If the air cleaner is dirty, the engine may not start. Clean or replace as recommended in the engine section of this manual.
Engine smokes	Engine loses crankcase vacuum	Dipstick not seated or broken. Replace defective part. Engine breather defective. Replace.
Excessive vibration	Bent or damage blade spindle	Stop engine immediately. Check all pulleys, blade spindles, blade adapters, keys and bolts for tightness and damage. Tighten or replace any damaged parts.
	Bent blade	Stop engine immediately. Replace damaged blade. Only use original equipment blades.
Mower will not discharge grass or leaves uncut strips	Engine speed low Transmission selection Blades short or dull	Throttle must be set between 3/4 and full throttle. Use lower transmission gear. The slower your ground speed, the better the quality of cut. Sharpen or replace blades (uncut strip problem only).

BELT TROUBLE SHOOTING CHART

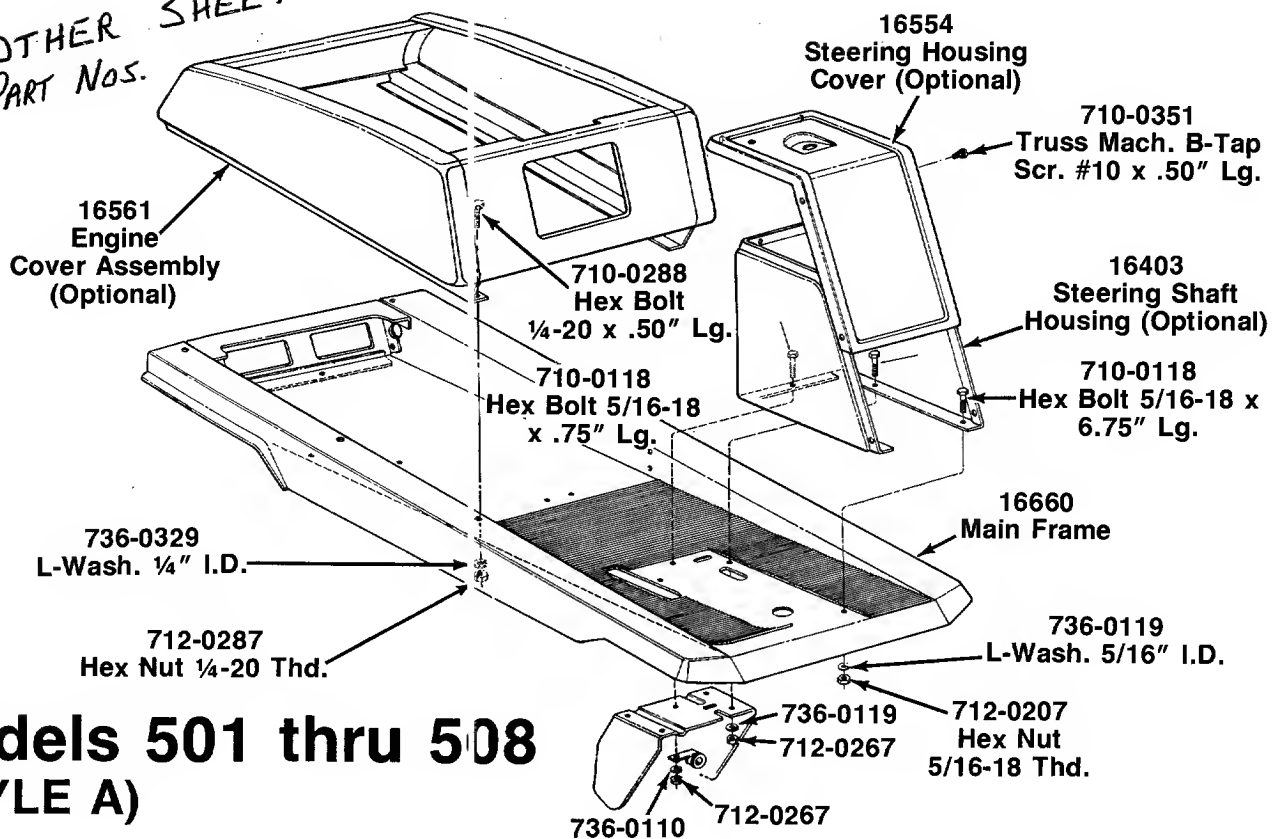
Failure	Probable Cause	Corrective Action
1 Broken Belt	1A Sudden stop or shock load to belt	1A Inspect rider for cause such as foreign objects stuck in between deck and frame or belt path. Remove obstruction and inspect for damage. Replace belt per parts list in this manual.
	1B Incorrect belt used	1B Replace with proper belt only. See parts list in this manual. Roll belt onto pulley. Do not use a screwdriver to push or pry belt onto pulley. The sharp bend can damage internal cords.
	1C Abrupt engagement	1C Slower engagement required.
	1D Defective or damaged belt	1D Refer to 1B.
2 Belt Shreds	2A Belt guides or guards incorrectly adjusted	2A Belt guides and guards should be adjusted to approximately 1/16 to 1/8 inch from belt when in the engaged position.
	2B Pulleys not aligned	2B Realign pulleys to be within approximately 1/16 inch of each other. Check with straight edge. Be sure fastening hardware is tight.
	2C Bad pulley—rough, rusty chipped, bent, frozen bearing, etc.	2C Replace as necessary. Adjust as per 2B.
3 Belt Comes Off	3A Belt stretched	3A Adjust as necessary when applicable. Refer to 1B.
	3B Broken or weak idler spring	3B Replace.

TROUBLE SHOOTING CHART FOR RECOIL START MODELS

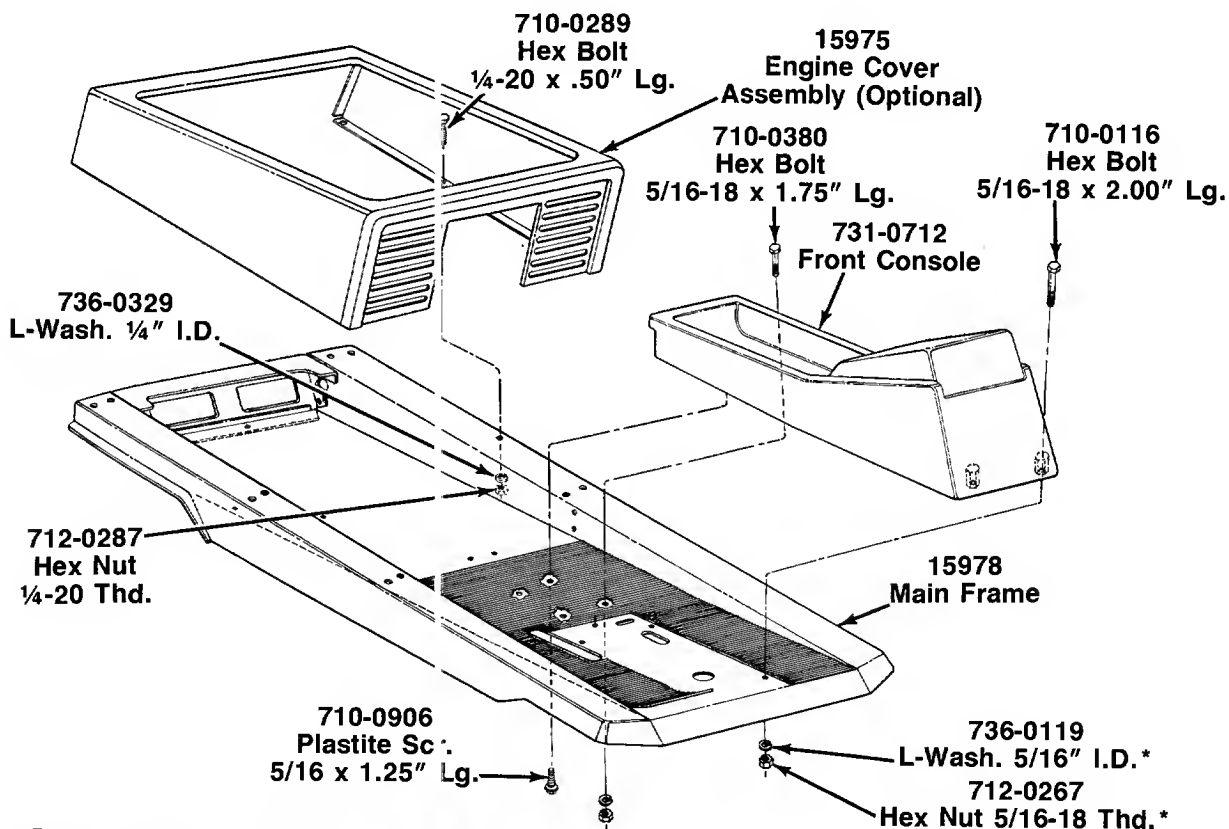
CAUTION: ALWAYS DISCONNECT SPARK PLUG BEFORE ATTEMPTING ANY REMEDY.

TROUBLE	LOOK FOR	REMEDY
Engine will not start when recoil handle is pulled.	Clutch and blade not disengaged.	Clutch pedal must be depressed and blade must be shut off.
	Ignition key not in the ON position.	Turn on the ignition key.
	Throttle not in the starting position.	Check owner's guide for correct position for throttle control for starting.
	No spark to spark plug.	Spark plug lead disconnected. Connect lead. Hold spark plug lead away from engine block about 1/8". Crank engine. There should be a spark. If not, have the engine repaired at authorized engine service dealer. Faulty spark plug. To test, remove spark plug. Attach spark plug lead to spark plug. Ground spark plug body against the engine block. Crank the engine. The spark plug should fire at the electrode. Replace if it does not.
	No fuel to the carburetor.	Gasoline tank empty. Fill. Fuel valve shut off. Open valve. Valve is located either at the bottom of the fuel tank or on the carburetor. Fuel line is plugged. Remove and clean.
	Air filter dirty.	If the air cleaner is dirty, the engine may not start. Clean or replace as recommended by the engine manufacturer.
	Mechanical failure (wires or switch).	The interlock system includes two mechanical activated switches which are wired in parallel. If the buttons on both switches are not depressed at least 1/8", the magneto will be grounded and the engine will not start. While testing the interlock system, you will make the mower temporarily unsafe by permitting the engine to be started with the blade and clutch engaged. WARNING: While testing, disengage the clutch, shut off the blade control, set the parking brake and place the gear shift lever in neutral. Disconnect the yellow wire where it attaches to the primary wire from the breaker assembly on the engine. Try to start the engine. If the engine does not start , the problem is in the engine (e.g. no fuel or no ignition). If the engine does start, the problem is in the safety system. Check the following: 1. The interlock wire may be grounded by being pinched or rubbing through the insulation. Tape or replace the wire. 2. The bolt on the flat spring behind the recoil starter where the yellow wire attaches must be insulated from the spring. Use a continuity tester. If it is not insulated, remove the bolt and nut, and replace the two fiber washers and reassemble.
Engine stops when the mower blade is engaged or the clutch is released.	Recoil handle is not in proper position.	After the engine starts, the recoil starter handle must be pushed into the dashboard and turned a quarter turn either direction to lock it in place.
Engine smokes. Excessive vibration	Engine loses crankcase vacuum.	Dipstick not seated or broken. Replace defective part. Engine breather defective. Replace.
	Bent or damaged blade spindle	Stop engine immediately. Check all pulleys, blade spindles, blade adapters, keys and bolts for tightness or damage. Tighten or replace any damaged parts.
	Bent blade.	Stop engine immediately. Replace damaged blade. Only use original equipment blades.
Mower will not discharge grass or leaves uncut strips.	Engine speed too low.	Throttle must be set between 3/4 and full throttle.
	Transmission selection.	Use lower transmission gear. The slower your ground speed, the better the quality of cut.
	Blades short or dull.	Sharpen or replace blades (uncut strip problem only).

SEE OTHER SHEET FOR
CORRECT PART NOS.

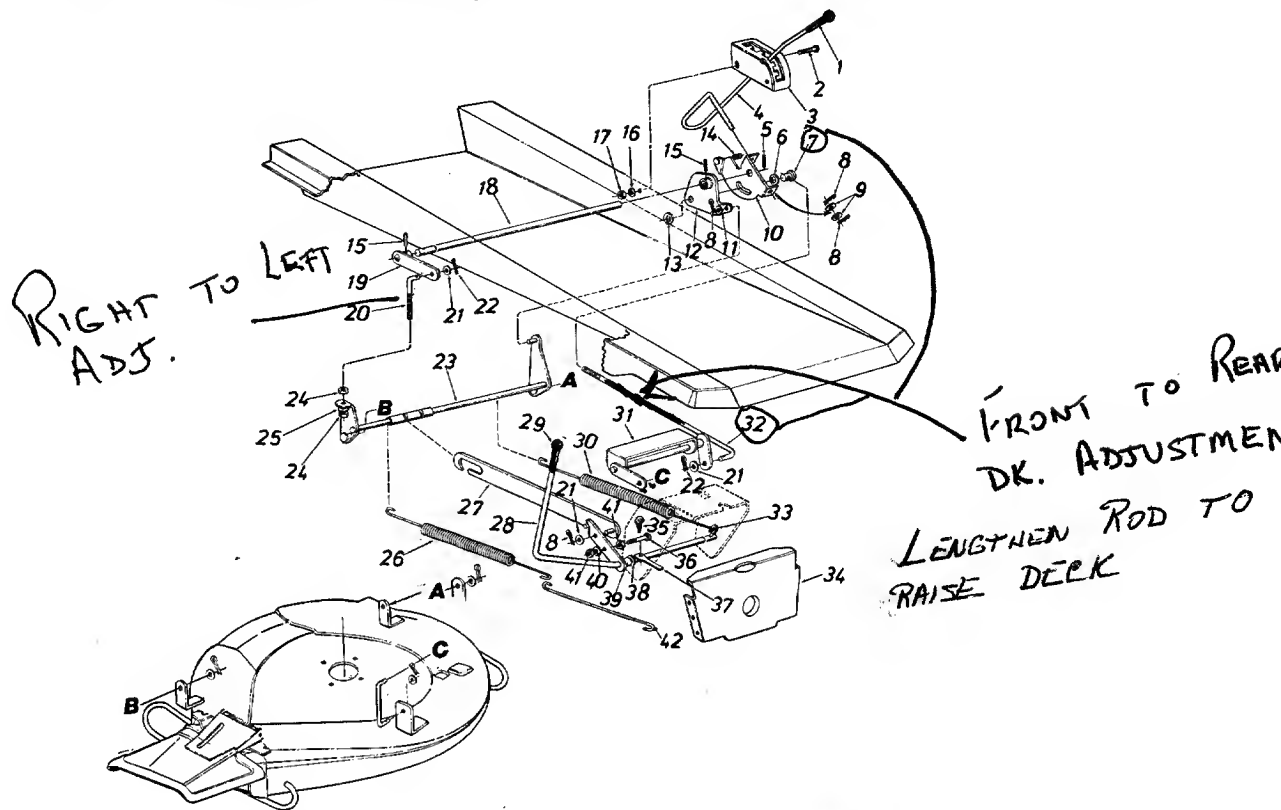


Models 501 thru 508 (STYLE A)



Models 511 thru 518 (STYLE B)

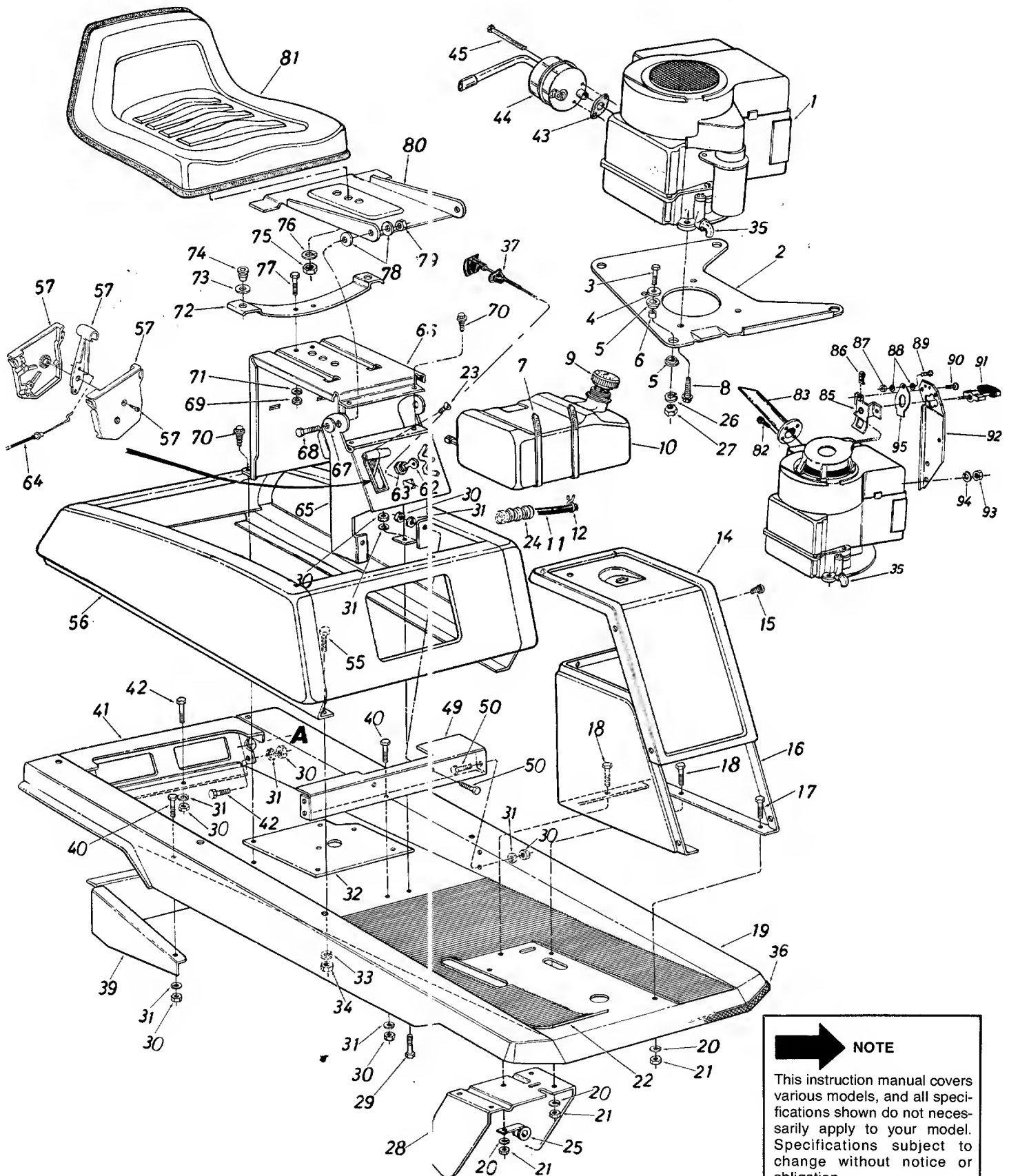
Models 501 thru 508, 511 thru 518



PARTS LIST FOR 501 THRU 508, 511 THRU 518 RIDING MOWERS

REF. NO.	PART NO.	COLOR CODE	DESCRIPTION	NEW PART	REF. NO.	PART NO.	COLOR CODE	DESCRIPTION	NEW PART
1	720-0143		Grip		21	736-0300		FI-Wash. .385" I.D. x .87" O.D.	
2	710-0323		Truss Mach. Scr. 5/16-18 x .75" Lg.*		22	714-0145		Intern. Cotter Pin 1/2" Dia.	
3	16397		Deck Index Bracket	N	23	15600		Deck Link Ass'y.—Rear	
4	747-0651		Deck Lift Handle	N	24	712-0798		Hex Nut 3/8-16 Thd.*	
5	715-0134		Spring Pin Spir. 3/16" Dia. x 1.50" Lg.		25	736-0169		L-Wash. 3/8" I.D.*	
6	736-0187		FI-Wash. .385" I.D. x .87" O.D.		26	732-0540		Extension Spring .73" O.D. x 13.84" Lg.	N
7	711-0749		Adj. Ferrule Deck Lift Handle		27	15644		Deck Drive Control Bracket	
8	714-0115		Cotter Pin 1/8" Dia. x 1.00" Lg.*		28	15568		Blade Engagement Lever Ass'y.	
9	736-0160		FI-Wash. .531" I.D. x .930" O.D.		29	720-0143		Grip	
10	16402		Deck Lift Handle Retainer Ass'y.	N	30	732-0540		Extension Spring .73" O.D. x 13.89" Lg.	N
11	736-0300		FI-Wash. .385" I.D. x .87" O.D.		31	15573		Deck Lift Ass'y.—Front	
12	15578		Deck Lift Brkt. Ass'y.—L.H.		32	747-0426		Deck Lift Connecting Rod	
13	736-0162		FI-Wash. .635" I.D. x 1.04" O.D.		33	711-0753		Clevis Pin Special .250" Dia.	
14	732-0430		Compression Spring .50" Dia. x 1.0" Lg.		34	15613		Pivot Bar Bracket	
15	715-0114		Spring Pin Spir. 1/4" Dia. x 1.50" Lg.		35	710-0642		Hex TT-Tap Scr. 1/4-20 x .75" Lg.	
16	736-0119		L-Wash. 5/16" I.D.*		36	710-0805		Hex Bolt 5/16-18 x 1.50" Lg. (Grade 5)	
17	712-0267		Hex Nut 5/16-18 Thd.*		37	732-0435		Switch Actuator	
18	738-0550		Rear Hgt. Adj. Shaft		38	736-0160		FI-Wash. .531" I.D. x .930" O.D.	
19	15609		Deck Lift Brkt. Ass'y.—R.H.		39	750-0515		Spacer .511" I.D. x .70" O.D. x .38" Lg.	
20	710-0866		Deck Adj. Scr. 3/8-16 Thd.		40	736-0119		L-Wash. 5/16" I.D.*	
					41	712-0267		Hex Nut 5/16-18 Thd.*	
					42	732-0451		Spring Hook	

Models 501 thru 508, 511 thru 518



NOTE

This instruction manual covers various models, and all specifications shown do not necessarily apply to your model. Specifications subject to change without notice or obligation.

Models 501 thru 508, 511 thru 518

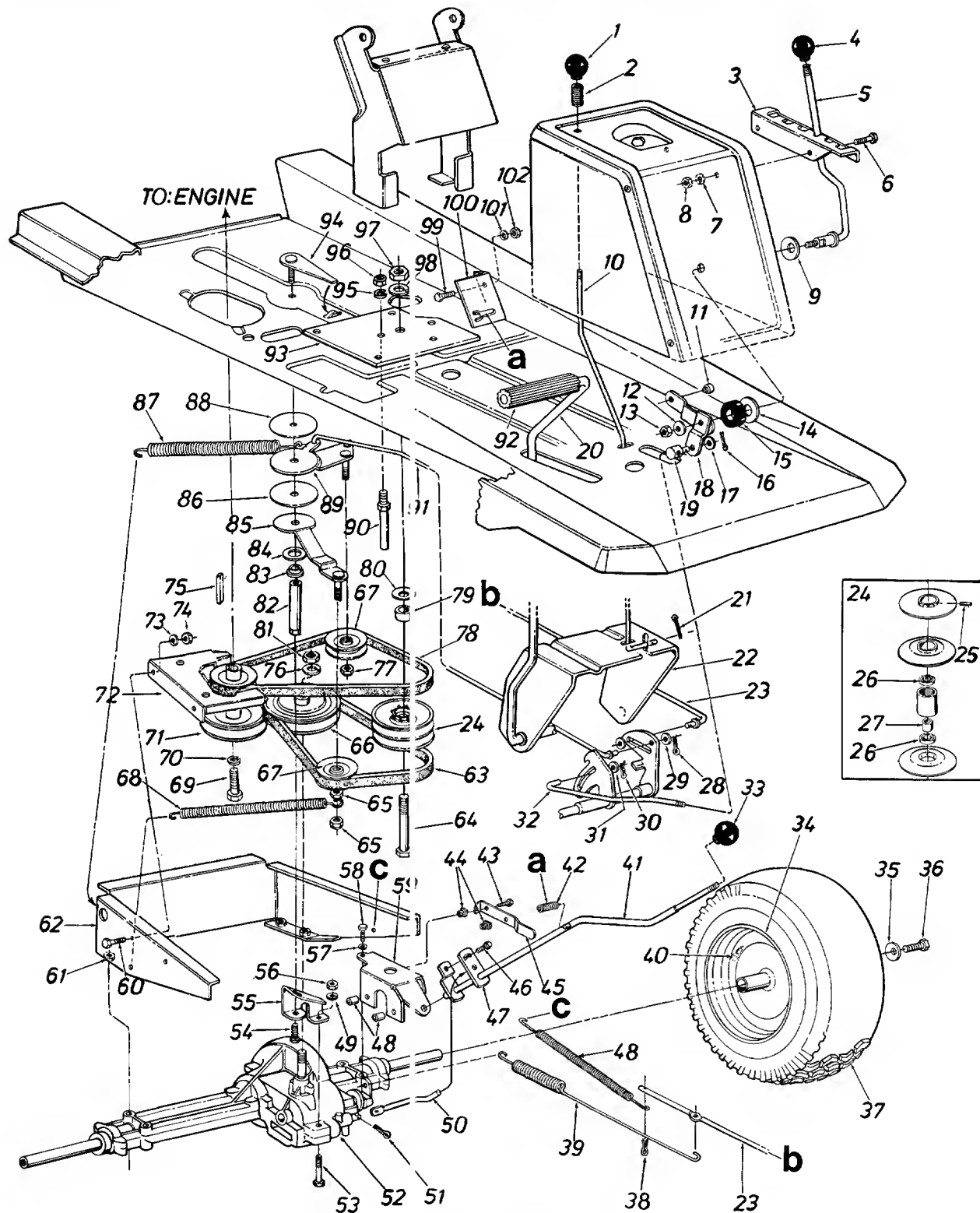
PARTS LIST FOR MODELS 501 THRU 508, 511 THRU 518 RIDING MOWERS

REF. NO.	PART NO.	COLOR CODE	DESCRIPTION	NEW PART	REF. NO.	PART NO.	COLOR CODE	DESCRIPTION	NEW PART
1	—		Engine		49	15604		Seat Support & Frame Brkt.	
2	15572		Engine Mounting Plate		50	710-0118		Hex Bolt 5/16-18 x .75" Lg.*	
3	710-0158		Hex Bolt 5/16-24 x 1.25" Lg.*		55	710-0289		Hex Bolt 1/4-20 x .50" Lg.*	
4	736-0231		Fl-Wash. .330" I.D. x 1.125" O.D.		56	£ —		Refer to Page 24	
5	722-0153		Engine Mounting Grommet		57	831-0796		Throttle Control Box Ass'y. (5 H.P.)	
6	750-0539		Spacer .315" I.D. x .50" O.D. x .520" Lg.			831-0823		Throttle Control Box Ass'y. (8, 10 & 11 H.P.)	
7	726-0209		Cable Tie 30.6 Lg.		62	725-0201		Ignition Key	
8	710-0502		Hex Wash. Hd. Self-Tap Scr. 3/8-16 x 1.25" Lg.		63	725-0267		Ignition Switch (Electric Start)	
9	723-0155		Gas Gauge			725-0464		Ignition Switch†	
10	751-0368		Fuel Tank		64	746-0503		Throttle Control Wire—35" (5 H.P.)	
11	751-0173		Gas Line			746-0630		Throttle Control Wire (8, 10 & 11 H.P.)	
12	726-0207		Hose Clamp—.406" Dia.		65	16483		Front Seat Bracket	N
14	—		Refer to Page 24		66	15606		Rear Seat Bracket	
15	—		Refer to Page 24		67	736-0242		Bell-Wash. .345" I.D. x .88" O.D.	
16	—		Refer to Page 24		68	710-0118		Hex Bolt 5/16-18 x .75" Lg.*	
17	—		Refer to Page 24		69	712-0267		Hex Nut 5/16-18 Thd.*	
18	—		Refer to Page 24		70	710-0601		Hex Self-Tap Scr. 5/16-18 x .75" Lg.	
19	—		Refer to Page 24		71	736-0329		L-Wash. 1/4" I.D.*	
20	—		Refer to Page 24		72	732-0431		Seat Spring	
21	—		Refer to Page 24		73	736-0160		Fl-Wash. .531" I.D. x .930" O.D.	
22	735-0220		Floor Mat		74	731-0555		Grommet	
23	710-0779		Truss Mach. AB-Tap Scr. #10 x .50" Lg.		75	712-0206		Hex Nut 1/2-13 Thd.*	
24	731-0757		Convoluted Conduit		76	736-0921		L-Wash. 1/2" I.D.*	
25	726-0175		Clamp		77	710-0118		Hex Bolt 1/4-20 x .75" Lg.*	
26	736-0119		L-Wash. 5/16" I.D.*		78	736-0242		Bell-Wash. .345" I.D. x .88" O.D.	
27	712-0123		Hex Nut 5/16-24 Thd.*		79	712-0158		Hex Cent. L-Nut 5/16-18 Thd.	
28	15562		Clutch-Brake Pedal Ass'y.		80	15607		Seat Pivot Bracket	
29	710-0118		Hex Bolt 5/16-18 x .75" Lg.*		81	757-0264		Seat Ass'y. Comp.	
30	712-0267		Hex Nut 5/16-18 Thd.*		82	710-0894		Hex Wash. Hd. TT-Tap Scr. 8-32 x .50" Lg. (5 H.P.)	
31	736-0119		L-Wash. 5/16" I.D.*		83	751-0339		Exhaust Pipe Ass'y. (5 H.P.)	
32	15588		Mounting Brkt. Variable Speed Pulley		85	11053		Switch Brkt. Ass'y.†	
33	736-0329		L-Wash. 1/4" I.D.*		86	712-0147		Speed Nut #10-24 U-Type†	
34	712-0287		Hex Nut 1/4-20 Thd.*		87	712-0121		Hex Nut #10-24 Thd.*†	
35	737-0125		90° Elbow Male To Female		88	736-0338		Fiber Washert†	
36	731-0511		Trim Strip 18" Lg.		89	710-0351		Truss Mach. Scr. #10 x .50" Lg.*†	
37	746-0614		Choke Control	N	90	710-0351		Truss Mach. Scr. #10 x .50" Lg.*†	
39	15553		Transaxle Support Ass'y.		91	11263		Plastic Handle (Starter Rope)†	
40	710-0118		Hex Bolt 5/16-18 x .75" Lg.*		92	15655		Rope Handle Bracket†	
41	15571		Rear Frame Panel		93	712-0267		Hex Nut 5/16-18 Thd.*†	
42	710-0621		Hex Bolt 5/16-18 x .50" Lg.*		94	736-0119		L-Wash. 5/16" I.D.*†	
43	721-0207		Exhaust Gasket (8 H.P.)		95	732-0257		Switch Spring†	
	721-0208		Exhaust Gasket (10 & 11 H.P.)						
44	751-0412		Muffler Ass'y. (8 H.P.)						
	751-0425		Spark Arrester For 8 H.P. Muffler						
	751-0413		Muffler Ass'y. (10 & 11 H.P.)						
	751-0426		Spark Arrester For 10 & 11 H.P. Muffler						
45	738-0635		Shld. Bolt (8 H.P.)						
	738-0636		Shld. Bolt (10 & 11 H.P.)						

†Recoil Start Models Only.

*For faster service obtain standard nuts, bolts and washers locally.
If these items cannot be obtained locally, order by part number and size as shown on parts list.

Models 501 thru 508, 511 thru 518



****FEAR WHEEL CHART**

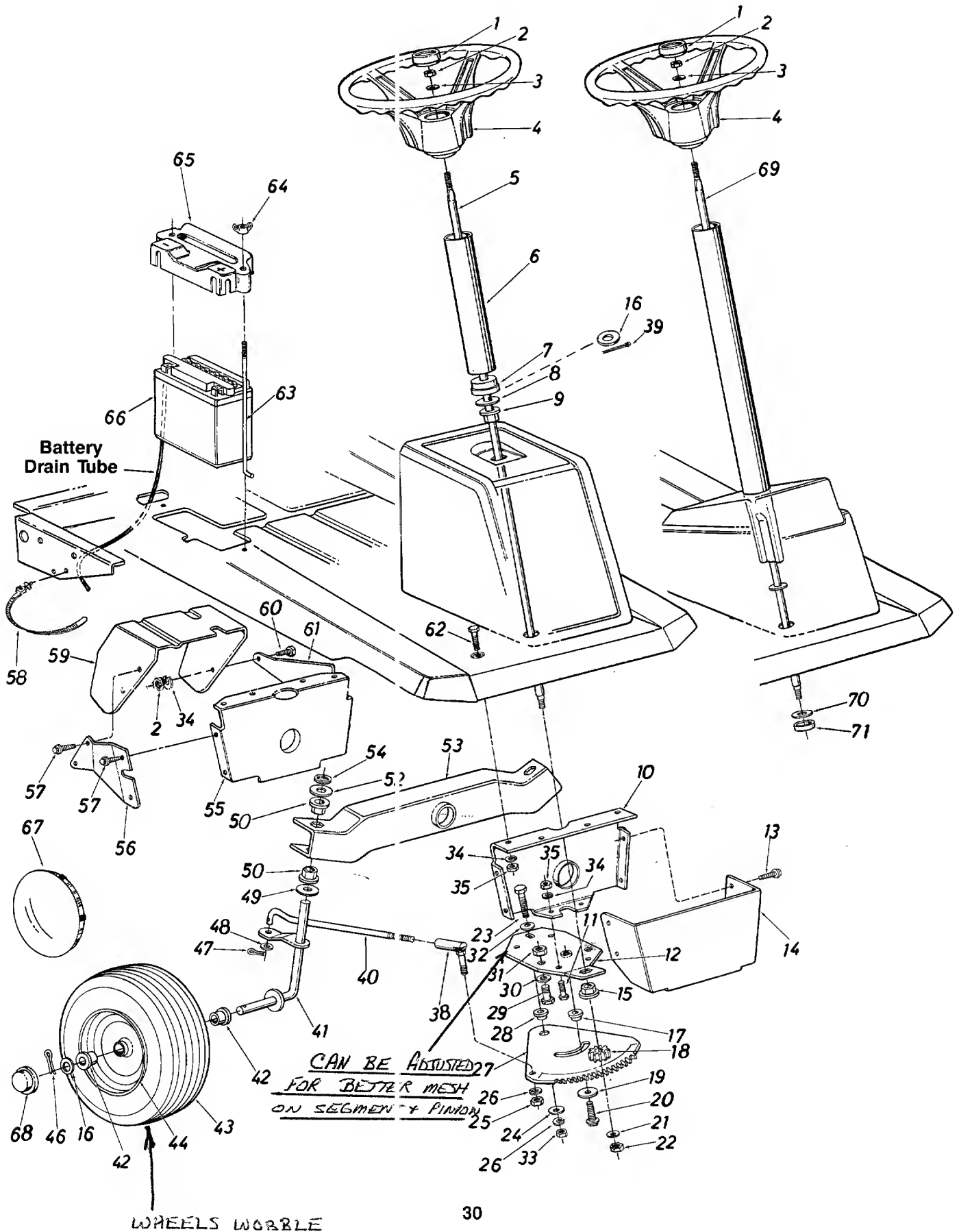
Description	16 x 6.50	15 x 6.0	13 x 5.0
Wheel Assembly Comp.	734-0591	734-0524	734-0523
Tire Only	734-0275	734-0427	734-0298
Rim Only	734-0594	734-0521	734-0517

Models 501 thru 508, 511 thru 518

PARTS LIST FOR MODELS 501 THRU 508, 511 THRU 518 RIDING MOWERS

REF. NO.	PART NO.	COLOR CODE	DESCRIPTION	NEW PART	REF. NO.	PART NO.	COLOR CODE	DESCRIPTION	NEW PART
1	720-0187		Ball Knob 1/4-20 Thd. 1.25"		47	16476		Shift Lever Adjusting Link	
2	732-0437		Compression Spring		48	750-0686		Spacer .256" I.D. x .87" Lg.	N
3	16389		Speed Index Bracket	N	49	736-0329		L-Wash. 1/4" I.D.*	
4	720-0165		Ball Knob		50	747-0668		Shift Rod	N
5	747-0652		Speed Control Lever	N	51	714-0149		Intern. Cotter Pin	
6	710-0323		Truss Mach. Scr. 5/16-18 x .75" Lg.*		52	717-0775V		Transaxle (See Breakdown)	
7	736-0119		L-Wash. 5/16" I.D.*		53	710-0136		Hex Bolt 1/4-20 x 1.75" Lg.*	
8	712-0267		Hex Nut 5/16-18 Thd.*		54	710-0180		Hex Bolt 3/8-24 x .75" Lg.*	
9	736-0253		Bell-Wash. .345" I.D. x .88"		55	15564		Torque Rod Bracket	
10	747-0427		Brake Locking Rod (501 thru 508)		56	712-0287		Hex Nut 1/4-20 Thd.*	
	747-0450		Brake Locking Rod (511 thru 518)		57	736-0329		L-Wash. 1/4" I.D.*	
					58	710-0965		Self-Tap Mach. Scr. Type "C" 1/4-20 x 1.37" Lg.	
11	731-0493		Cap		59	16478		Shift Lever Support Brkt.	N
12	736-0242		Bell-Wash. .345" I.D. x .08"		60	710-0597		Hex Bolt 1/4-20 x 1.00" Lg.*	
13	712-0158		Hex Cent. L-Nut 5/16-18 Thd.		61	712-0267		Hex Nut 5/16-18 Thd.*	
14	736-0100		FI-Wash. .531" I.D. x 1.25" O.D. (511 thru 508)		62	15553		Transaxle Support Ass'y.	
	736-0154		FI-Wash. .50" I.D. x 1.5" O.D. (501 thru 518)		63	754-0240		V-Belt 5/8 x 38.0" Lg.	
15	735-0219		Rubber Wash. .50" I.D. x 1.25" O.D.		64	710-0786		Hex Bolt 1/2-13 x 4" Lg.*	
16	714-0145		Intern. Cotter Pin 1/2" Dia.		65	712-0116		Hex Ins. L-Nut 3/8-24 Thd.	
17	736-0275		FI-Wash. .34" I.D. x .68" O.D.		66	756-0390		5/8 V-Pulley .500" I.D. x 6"	
18	16396		Speed Control Lever Brkt. Ass'y.	N	67	756-0116		V-Belt Idler .38" I.D. x 3.06"	
19	711-0611		Ferrule—Engagement		68	732-0308		Ext. Spring .50" O.D. x 6.37"	
20	15562		Clutch/Brake Pedal Ass'y.		69	710-0314		Hex Bolt 7/16-20 x 1.00" Lg.	
21	714-0507		Cotter Pin 3/32" Dia. x .75"*		70	736-0171		L-Wash. 7/16" I.D.	
22	15562		Clutch/Brake Pedal Ass'y.		71	756-0391		Engine Pulley .500" O.D. & 3.56" O.D.	
23	747-0431		Brake Rod		72	15623		Upper Eng. Belt Guard	
24	717-0473		Variable Speed Pulley Ass'y.		73	736-0329		L-Wash. 1/4" I.D.*	
25	715-0124		Spring Pin Spir. 5/32" Dia. x .62" Lg.		74	712-0287		Hex Nut 1/4-20 Thd.*	
26	741-0139		Ball Brg. .50" I.D. x 1.38"		75	714-0114		Sq-Key 1/4" x 2.00" Lg.	
27	750-0516		Spacer .50" I.D. x 1.00" Lg.		76	736-0921		L-Wash. 1/2" I.D.*	
28	714-0115		Cotter Pin 1/8" Dia. x 1.25"*		77	712-0116		Hex Ins. L-Nut 3/8-24 Thd.	
29	736-0275		FI-Wash. .34" I.D. x .60" O.D.		78	754-0241		V-Belt 5/8 x 35.0" Lg.	
30	714-0104		Intern. Cot-Pin 5/16" Dia.		79	750-0333		Spacer .501" I.D. x .775 Lg.	
31	736-0275		FI-Wash. .34" I.D. x .60" O.D.		80	736-0253		Bell-Wash. .505" I.D. x 1.00"	
32	747-0394		Speed Control Rod (501 thru 508)	N	81	712-0206		Hex Nut 1/2-13 Thd.*	
	747-0451		Speed Control Rod (511 thru 518)		82	711-0676		Torque Rod	
33	720-0165		Ball Knob		83	748-0294		Flange Bearing .378	
34	**		Rear Wheel Rim Only		84	736-0187		FI-Wash. .640" I.D. x 1.24"	
35	736-0242		Bell-Wash. .345" I.D. x .88"		85	15569		Idler Bracket Ass'y.	
36	710-0627		Hex L-Bolt 5/16-24 x .75" Lg.		86	736-0283		Thrust Wash. .635" I.D.	
37	**		Rear Wheel Ass'y.—Comp.		87	732-0436		Extension Spring 8.0" Lg.	
38	714-0470		Cotter Pin 1/8" Dia. x 1.25"*		88	736-0284		Thrust Wash. .385" I.D.	
39	732-0389		Extension Spring 17.0" Lg.		89	15585		Idler Bracket Ass'y. For Clutch	
40	734-0255		Air Valve		90	711-0747		Belt Guard Pin 1/4" Dia.	
41	16475		Shift Lever Ass'y.	N	91	747-0422		Clutch Rod	
42	732-0499		Compression Spring 1.50" Lg.	N	92	735-0196		Foot Pad	
43	710-0789		C Sink AB S-Tap Scr. #8 x .50" Lg.		93	15588		Mounting Bracket Variable Pulley	
44	726-0206		Push-in Nut #10		94	15642		Weld Bolt Brkt. Ass'y.	
45	732-0420		Spring Switch		95	736-0329		L-Wash. 1/4" I.D.*	
46	710-0289		Hex Bolt 1/4-20 x .50" Lg.*		96	712-0287		Hex Nut 1/4-20 Thd.*	
					97	712-0206		Hex Nut 1/2-13 Thd.*	
					98	736-0921		L-Wash. 1/2" I.D.*	
					99	710-0118		Hex Bolt 5/16-18 x .75" Lg.*	
					100	16482		Shift Lever Spring Brkt.	N
					101	736-0119		L-Wash. 5/16" I.D.*	
					102	712-0267		Hex Nut 5/16-18 Thd.*	

Models 501 thru 508, 511 thru 518



Models 501 thru 508, 511 thru 518

PARTS LIST FOR MODELS 501 THRU 508, 511 THRU 518 RIDING MOWERS

REF. NO.	PART NO.	COLOR CODE	DESCRIPTION	NEW PART	REF. NO.	PART NO.	COLOR CODE	DESCRIPTION	NEW PART
1	731-0220		Steering Wheel Cap		32	736-0105		Bell-Wash. .385" I.D. x .88"	
2	712-0158		Hex Nut 5/16-18 Thd.†		33	712-0241		Hex Nut 3/8-24 Thd.*	
	712-0237		Hex Nut 5/16-24 Thd.††		34	736-0119		L-Wash. 5/16" I.D.*	
3	736-0242		Bell-Wash. .345" I.D. x .88" O.D.		35	712-0267		Hex Nut 5/16-18 Thd.*	
4	731-0219		Steering Wheel Ass'y.†		38	723-0156		Ball Joint Ass'y. 3/8-24 Thd.	
	731-0805		Steering Wheel Ass'y.††	N	39	714-0115		Cotter Pin 1/8" Dia. x 1.00" Lg.* (501 thru 508)	
5	738-0537		Steering Shaft (501 thru 508)†		40	747-0417		Steering Tie Rod	
	738-0700		Steering Shaft (501 thru 508)††	N	41	15616		Front Axle Ass'y.—R.H.	
6	750-0568		Steering Tube Spacer (Chrome) (501 thru 508)			15617		Front Axle Ass'y.—L.H. (Not Shown)	
7	731-0651		Steering Tube Spacer (501 thru 508)		42	741-0313		Flange Bearing .632" I.D.	
8	736-0187		FI-Wash. .640" I.D. x 1.25" O.D. (501 thru 508)		43	◀		Front Wheel Ass'y. Comp.	
9	741-0225		Hex Flange Bearing (501 thru 508)		44	◀		Front Wheel Rim Only	
10	15613		Pivot Bar Bracket		46	714-0470		Cotter Pin 1/8" Dia. x 1.25"*	
11	710-0118		Hex Bolt 5/16-18 x .75" Lg.*		47	714-0115		Cotter Pin 1/8" Dia. x 1.00"*	
12	15614		Steering Gear Support Brkt.		48	736-0300		FI-Wash. .385" I.D. x .87"	
13	710-0776		Hex Wash. Hd. AB-Tap Scr. 1/4 x .62" Lg.		49	736-0156		FI-Wash. .635" I.D. x 1.12"	
14	15608		Steering Gear Cover		50	741-0225		Hex Flange Bearing	
15	741-0225		Hex Flange Bearing		52	736-0156		FI-Wash. .635" I.D. x 1.12"	
16	736-0285		FI-Wash. .640" I.D. x 1.62" O.D. (501 thru 508)		53	15610		Pivot Bar Ass'y.	
17	738-0541		Shoulder Spacer .622 Dia. x .218		54	726-0159		Speed Nut 5/8" I.D.	
18	748-0290		Steering Pinion Gear		55	15613		Pivot Bar Bracket	
19	736-0320		FI-Wash. .385" I.D. x 1.38"		56	15694		Bracket Reinforcement—R.H.	
20	710-0502		Hex Wash. Hd. Self-Tap Scr. 3/8-16 x 1.25" Lg.		57	710-0776		Hex Wash. Hd. AB-Tap Scr. 1/4 x .62" Lg.	
21	736-0275		FI-Wash. .34" I.D. x .68" O.D.		58	726-0154		Cable Tie**	
22	712-0123		Hex Nut 5/16-24 Thd.*		59	15562		Clutch-Brake Pedal Ass'y.	
23	710-0191		Hex Bolt 3/8-24 x 1.25" Lg. (Grade 5)		60	710-0118		Hex Bolt 5/16-18 x .75" Lg.*	
24	736-0320		FI-Wash. .385" I.D. x 1.38"		61	15699		Bracket Reinforcement—L.H.	
25	712-0241		Hex Nut 3/8-24 Thd.*		62	710-0118		Hex Bolt 5/16-18 x .75" Lg.*	
26	736-0169		L-Wash. 3/8" I.D.*		63	711-0222		Battery Hold Down Rod**	
27	717-0472		Steering Gear Segment		64	712-0113		Wing Nut Solid 1/4-20 Thd.**	
28	738-0541		Shoulder Spacer .622" Dia. x .218		65	731-0708		Battery Hold Down Cover**	
29	710-0689		Hex Bolt (Nylon) 1/2-13 x .75"		66	725-0514		12V Battery**	
30	736-0160		FI-Wash. .530" I.D. x .930"		67	734-1002		Chrome Hub Cap (Optional)	
31	712-0206		Hex Nut 1/2-13 Thd.*		68	731-0484		Plastic Hub Cap (Optional)	
					69	16042		Steering Shaft Ass'y. (511 thru 518)†	
						16513		Steering Shaft Ass'y. (511 thru 518)††	N
					70	736-0187		FI-Wash. .62" I.D. x 1.50" O.D. (511 thru 518)	
					71	750-0532		Spacer (Plastic) (511 thru 518)	

†Steering Shaft With Two Flats

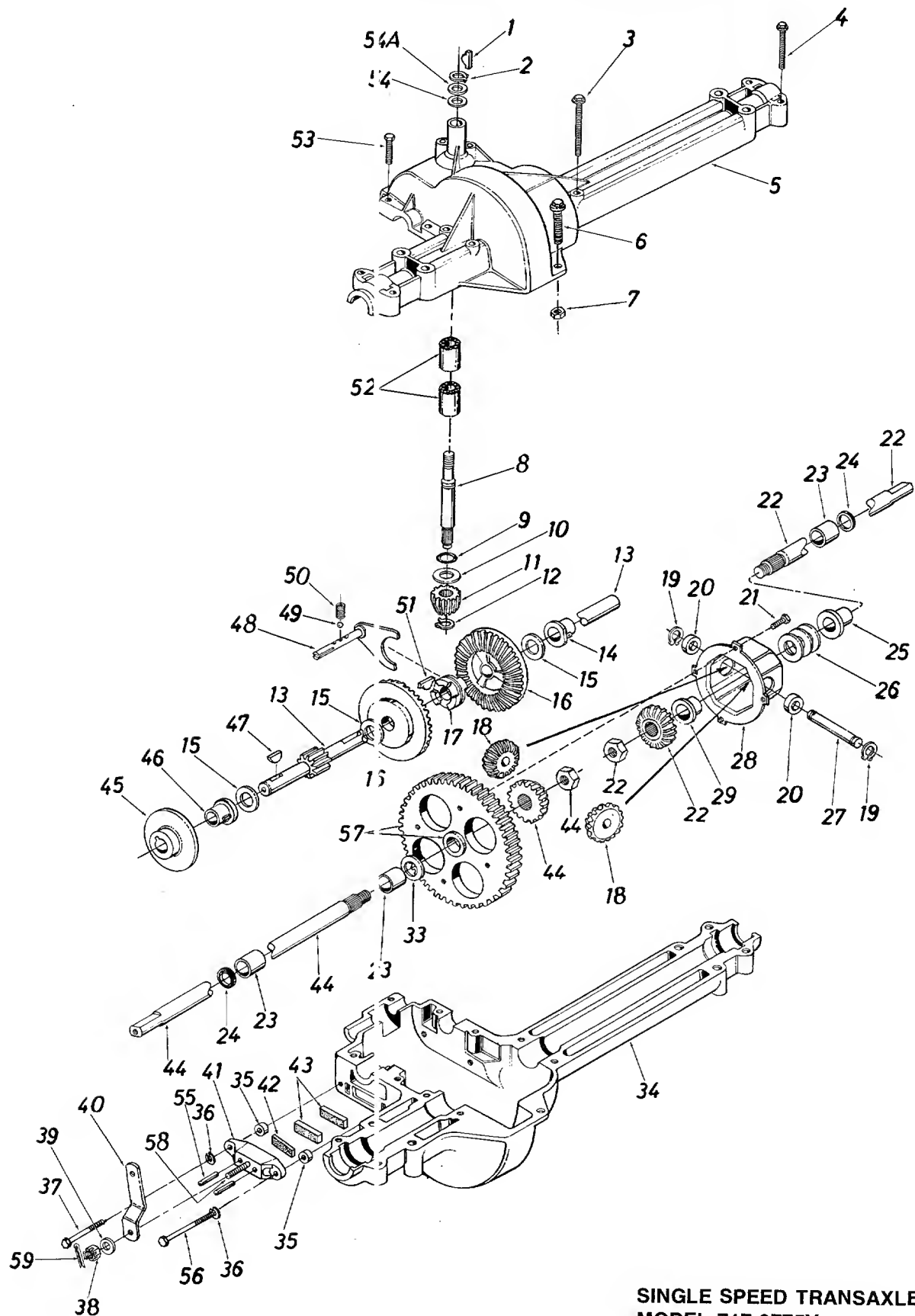
††Steering Shaft With Splined End

**Electric Start Models only.

◀FRONT WHEEL CHART

Description	11 x 4.0	11 x 4.0	10.5 x 3.5
Wheel Assembly Comp.	734-1383	734-1404	734-1000
Tire Only	734-1382	734-1382	—
Rim Only	734-1183	734-1405	—
Bearing	741-0313	741-0155	741-0313
Air Valve	734-0255	734-0255	—
Grease Fitting	737-0146	737-0146	—

Models 501 thru 508, 511 thru 518



SINGLE SPEED TRANSAXLE—L.H.
MODEL 717-0775V

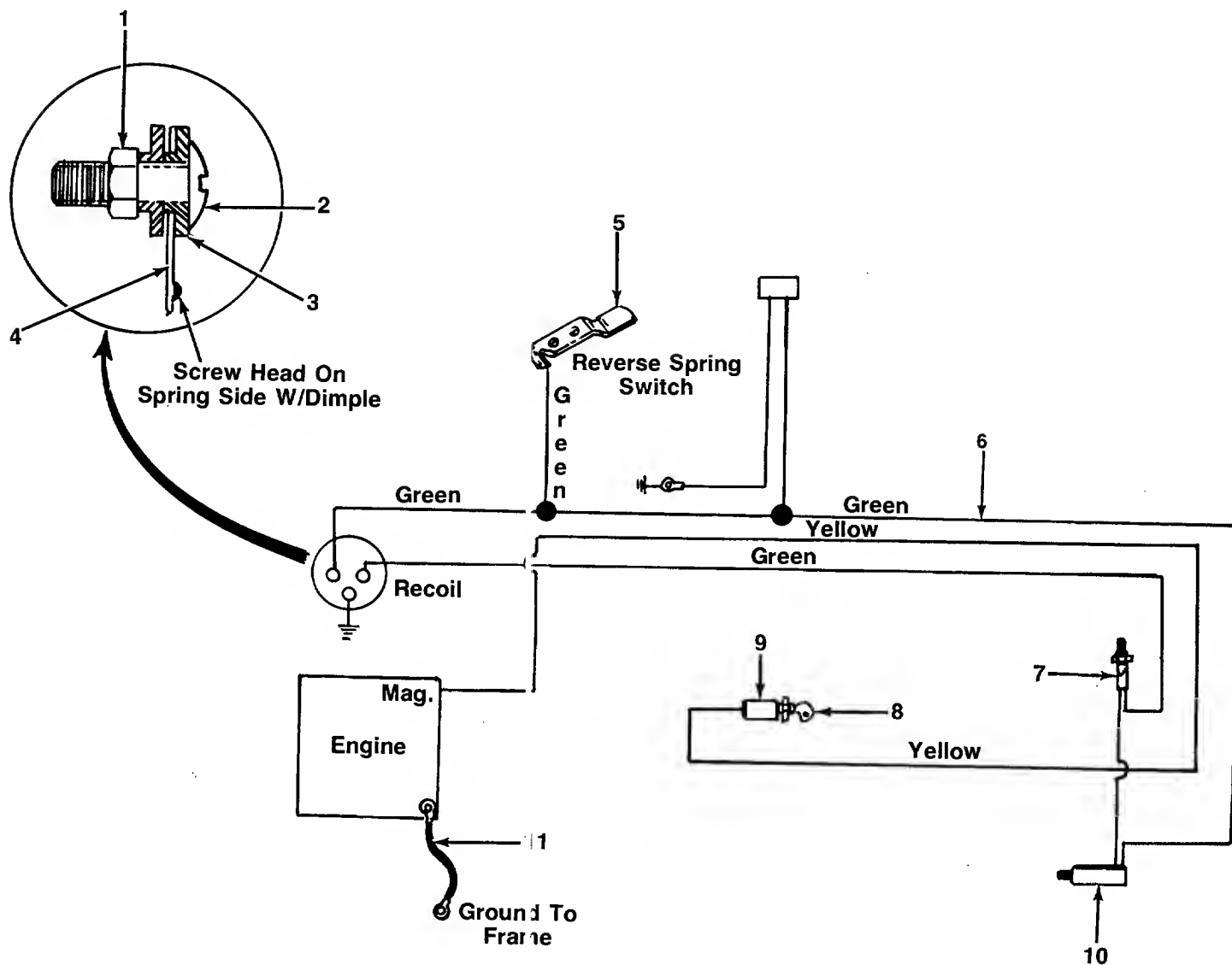
Models 501 thru 508, 511 thru 518

PARTS LIST FOR SINGLE SPEED TRANSAXLE LEFT HAND 717-0775V

REF. NO.	PART NO.	COLOR CODE	DESCRIPTION	NEW PART	REF. NO.	PART NO.	COLOR CODE	DESCRIPTION	NEW PART
1	714-0129		#4 Hi-Pro Key 3/32 x 5/8" Dia.		34	717-0761		Lower Housing	
2	716-0115		Snap Ring .625" Shaft		35	750-0555		Spacer .53" O.D. x 3/8" Lg.	
3	710-0854		Hex Bolt 1/4-20 x 1.75" Lg.*		36	736-0329		L-Wash. 1/4" I.D.*	
4	710-0809		Hex Bolt 1/4-20 x 1.25" Lg.*		37	710-0886		Hex Bolt 1/4-20 x 1.50" Lg. (Grade 5)	
5	717-0764		Upper Housing		38	712-0335		Castle Nut 5/16-24 Thd.	
6	710-0889		Hex FI-Bolt 1/4-20 x .88" Lg.*		39	736-0159		FI-Wash. .344" I.D. x .875" O.D.	
7	712-0287		Hex Nut 1/4-20 Thd.*		40	717-0772		Actuating Arm	
8	717-0634		Input Shaft		41	717-0679		Brake Yoke	
9	721-0178		Square Seal 5/8" I.D.		42	717-0682		Puck Plate	
10	736-0335		Thrust Washer 5/8" I.D. x 1.25" O.D.		43	717-0678		Brake Puck	
11	717-0633		Pinion Input 14T		44	717-0765		Axle L.H. Ass'y.—Kit	N
12	716-0108		Retaining Ring 7/16" Ext.		45	717-0677		Brake Disc	
13	717-0768		Drive Shaft		46	741-0337		Flange Bearing 5/8" I.D. x 15/16" Lg.	
14	741-0336		Flange Brg. 5/8" I.D. x 3/4" Lg.*		47	714-0161		Woodruff Key 3/16 x 5/8 HT	
15	**		FI-Wash. (See Below)		48	717-0754		Shift Fork Ass'y.	
16	717-0757		Bevel Gear 42T		49	741-0862		Ball Detent .250" Dia.	
17	717-0667		Clutch Collar		50	732-0863		Spring Detent	
18	717-1020		Miter Gear 15T (H.D.)	N	51	714-0169		#9 Hi-Pro Key 3/16" x 3/4" Dia. HT	
19	716-0142		Snap Ring		52	741-0335		Needle Brg. 5/8" I.D. x 1/2" Lg.	
20	717-0690		Thrust Bearing 1/2" I.D. x 1.0" O.D.		53	710-0855		Hex Bolt 1/4-20 x 1.00" Lg.	
21	710-0862		Pan Head Scr. 1/4-20 x .50" Lg. w/Patch		54	736-0336		FI-Wash. 5/8" I.D. x .030	
22	717-0766		Axle R.H. Ass'y.—Kit	N	54A	736-0337		FI-Wash. 5/8" I.D. x .040	
23	741-0340		Sleeve Bearing 3/4" I.D. x 1.0" Lg.		55	741-0343		Actuating Pin 5/16" Dia.	
24	721-0179		Oil Seal 3/4" I.D.		56	710-0966		Hex Bolt 1/4-20 x 2.50" Lg. (Grade 5)	
25	741-0339		Flange Bearing 3/4" I.D. x 15/16" Lg.		57	717-0767		Differential Gear 72T Ass'y. w/Bearing	
26	736-0188		FI-Wash. .760" I.D. x 1.49" O.D.		58	717-0681		Sq. Hd. Bolt 5/16-24 Thd.	
27	717-0673		Cross Shaft		59	1544-013		Cotter Pin 3/32" Dia. x .50" Lg.	
28	717-0777		Differential Housing Ass'y.		—	737-0148		Grease—Shell (10 oz.)	
29	—		Part of Ref. 28						
33	736-0188		FI-Wash. .760" I.D. x 1.49" O.D.						

**Ref. No. 15 736-0349 FI-Wash. 5/8" I.D. x 1.0" O.D. x .020" Thk.
 736-0336 FI-Wash. 5/8" I.D. x 1.0" O.D. x .030" Thk.
 736-0337 FI-Wash. 5/8" I.D. x 1.0" O.D. x .040" Thk.

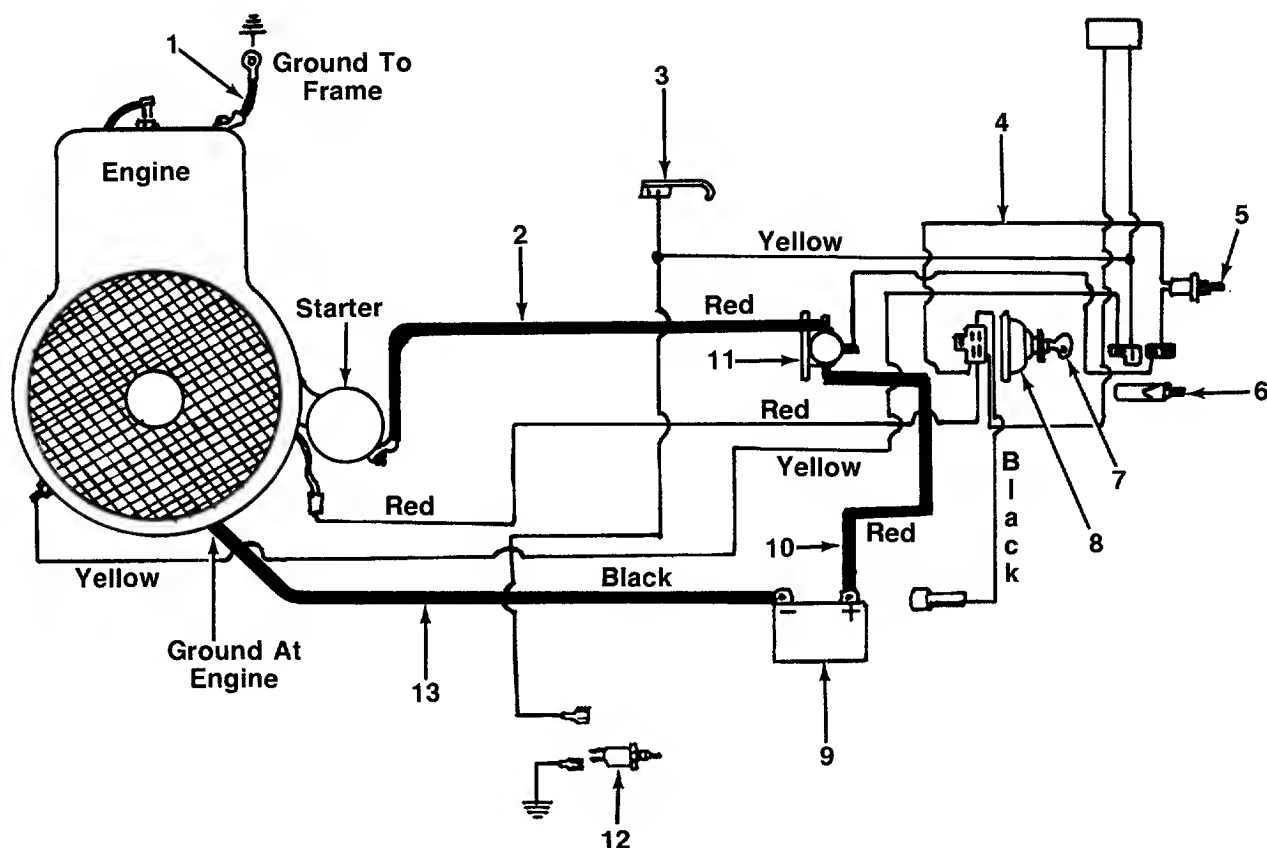
Models 501, 502, 511 and 512 (Recoil Start)



**PARTS LIST FOR ELECTRICAL SYSTEM
MODELS 501, 502, 511 AND 512 RIDING MOWERS**

REF. NO.	PART NO.	COLOR CODE	DESCRIPTION	NEW PART
1	712-0121		Hex Nut #10-24 Thd.*	N
2	710-0425		Truss Mach. Scr. #10-24 x .62" Lg.*	
3	736-0338		Fiber Washer	
4	732-0257		Switch Spring—Recoil	
5	732-0420		Spring Switch—Reverse	
6	725-1182		Wire Harness	
7	725-0269		Safety Switch—Red N.C.—Clutch	
8	725-0201		Ignition Key	
9	725-0464		Ignition Switch	
10	725-0819		Safety Switch—P.T.O.	
11	725-0882		Ground Wire	

Models 504 thru 508, 514 thru 518 (Electric Start)



**PARTS LIST FOR ELECTRICAL SYSTEM
MODELS 504 THRU 508, 514 THRU 518 RIDING MOWERS**

REF. NO.	PART NO.	COLOR CODE	DESCRIPTION	NEW PART
1	725-0977		Elec. Wire 8 Ga. x 9.0" Lg.	N
2	725-0424		Elec. Wire	
3	732-0420		Spring Switch—Reverse	
4	725-1143		Wire Harness	
5	725-0268		Safety Switch—Black N.O. <i>CLUTCH</i>	
6	725-0819		Safety Switch <i>BLADE</i>	
7	725-0201		Ignition Key	
8	725-0267		Ignition Switch	
9	725-0514		Battery 12V	
10	725-0977		Elec. Wire 8 Ga. x 11.5" Lg. Black	
11	725-0771		Solenoid	
12	725-0269		Safety Switch Red N.C.	
	725-1001		Safety Switch Red—(36" Deck)	
13	725-0975		Elec. Wire 8 Ga. x 9.0" Lg.	

PARTS INFORMATION

POWER EQUIPMENT PARTS AND SERVICE

Parts and service are available through the authorized service firms listed below. All orders should specify the model number of your unit, part numbers, description of parts and the quantity of each part required.

BRIGGS AND STRATTON, TECUMSEH AND PEERLESS PARTS AND SERVICE

Briggs & Stratton, Tecumseh and Peerless parts and service should be handled by your nearest authorized engine service firm. Check the yellow pages of your telephone directory under the listing **Engines—Gasoline**, Briggs & Stratton or Tecumseh Lauson.

NOTE: If any parts are found to be missing or defective upon assembly of this unit, write to advise the factory so that immediate replacement can be made.

ALABAMA	BIRMINGHAM		
Auto Electric & Carburetor Co.	2625 4th Ave. S.	35233	
ARKANSAS	NORTH LITTLE ROCK		
Sutton's Lawn Mower Shop	5301 Roundtop Drive		
	Box 368, Rt. 4	72117	
CALIFORNIA	PORTERVILLE		
Billious	75 North D Street	93257	
COLORADO	DENVER		
Spitzer Industrial Products Co.	6601 N.		
	Washington St.	80229	
FLORIDA	JACKSONVILLE		
Radco Distributors	4909 Victor St.		
	Box 5459	32207	
	HIALEAH		
Small Eng. Dist.	7995 W. 26th Court	33016	
GEORGIA	EAST POINT		
East Point Cycle & Key Inc.	2834 Church St.	30344	
ILLINOIS	LYONS		
Keen Edge Co.	8615 Ogden Ave.	30534	
INDIANA	ELKHART		
Parts & Sales Inc.	2101 Industrial Pkwy.	46516	
IOWA	DUBUQUE		
Power Lawn & Garden Equip.	2551 J.F. Kennedy	52001	
LOUISIANA	NEW ORLEANS		
Suhren Engine Co.	8330 Earhart Blvd.	70118	
MARYLAND	TAKOMA PARK		
Center Supply Co.	6867 New Hampshire		
	Ave.	20912	
MASSACHUSETTS	SPRINGFIELD		
Morton B. Collins Co.	300 Birnie Ave.	01107	
MICHIGAN	LANSING		
Lorenz Service Co.	2500 S. Pennsylvania	48910	
	MOUNT CLEMENS		
Power Equipment Dist.	340 Hubbard	48043	
MINNESOTA	HOPKINS		
Hance Distributing Inc.	420 Excelsior Ave. W.	55343	
MISSOURI	KANSAS CITY		
Automotive Equip. Service	3117 Holmes St.	64109	
	ST. JOSEPH		
Ross-Frazer Supply Co.	8th and Monterey	64503	
	ST. LOUIS		
Henzler, Inc.	2015 Lemay Ferry Rd.	63125	
NEW JERSEY	BELLMAWR		
Lawnmower Parts Inc.	717 Creek Rd.	08030	
NEW MEXICO	ALBUQUERQUE		
Spitzer Eng. & Parts Co.	1023 Third Ave. N.W.	87103	
NEW YORK	CARTHAGE		
Gamble Dist., Inc.	West End Ave.	13619	
	NORTH CAROLINA		
	Smith Hardware Co.		
	GOLDSBORO		
	515 N. George St.	27530	
	GREENSBORO		
	Dixie Sales Company	335 N. Green	27402
OHIO	CARROLL		
Stebe's Mid-State Mower Supply .	Box 366, 71 High St.	43112	
	CLEVELAND		
Bleckrie, Inc.	7900 Lorain Ave.	44102	
National Central	WADSWORTH		
	687 Seville Rd.	44281	
Burton Supply Co.	YOUNGSTOWN		
	1301 Logan Ave.		
	Box 929	44501	
OKLAHOMA	MUSKOGEE		
Victory Motors, Inc.	605 S. Cherokee	74401	
OREGON	PORTLAND		
Kenton Supply Co.	8216 N. Denver Ave.	97217	
PENNSYLVANIA	HARRISBURG		
EECO Inc.	4021 N. 6th St.	17110	
	WILLOW GROVE		
Thompson Rubber Co.	850 Davisville Rd.	19090	
	PITTSBURGH		
Bluemont Co.	11125 Frankstown Rd.	15235	
Frank Roberts & Sons	PUNXSUTAWNEY		
	R.D. 2	15767	
Scranton Auto Ignition Co.	SCRANTON		
	1133-35 Wyoming Ave.	18509	
TENNESSEE	KNOXVILLE		
Ace Distributors	2103 Magnolia	37915	
	MEMPHIS		
American Sales & Service, Inc. ...	3035-43 Bellbrook	38116	
TEXAS	DALLAS		
Marr Brothers, Inc.	423 E. Jefferson	75203	
	FORT WORTH		
Woodson Sales Corp.	6733 Baker Blvd.		
	Hwy. 10	76118	
	HOUSTON		
Bullard Supply Co.	2409 Commerce St.	77003	
	SAN ANTONIO		
Engine House Inc.	8610 Botts Lane		
	P.O. Box 17867	78217	
UTAH	SALT LAKE CITY		
Powered Products	1661 N. Beck St.	84116	
VIRGINIA	ASHLAND		
RBI Corp.	101 Cedar Ridge Dr.	23005	
WASHINGTON	SEATTLE		
Equip. Northwest	1410 14th Ave.	98122	
WISCONSIN	MILWAUKEE		
Wisconsin Magneto Inc.	4727 N. Teutonia St.	53209	

WARRANTY PARTS AND SERVICE POLICY

(0685)

The purpose of warranty is to protect the customer from defects in workmanship and materials, defects which are NOT detected at the time of manufacture. It does not provide for the unlimited and unrestricted replacement of parts. Use and maintenance are the responsibility of the customer. The manufacturer cannot assume responsibility for conditions over which it has no control. Simply put, if it's the manufacturer's fault, it's the manufacturer's responsibility; if it's the customer's fault, it's the customer's responsibility.

CLAIMS AGAINST THE MANUFACTURER'S WARRANTY INCLUDES:

1. Replacement of Missing Parts on new equipment.
2. Replacement of Defective Parts within the warranty period.
3. Repair of Defects within the warranty period.

All claims MUST be substantiated with the following information:

1. Model Number of unit involved.
2. Date unit was purchased or first put into service.
3. Date of failure.
4. Nature of failure.